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BULLETIN
OF
OTTAWA UNIVERSITY
OTTAWA, KANSAS

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CATALOG EDITION, 1921-1922
ANNOUNCEMENTS FOR 1922-1923

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JUL 5 1922



OTTAWA UNIVERSITY
OTTAWA, KANSAS

THE
ANNUAL CATALOG

REGISTER FOR 1921-1922
ANNOUNCEMENTS FOR 1922-1923



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No. 4
April, 1922

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THE FINANCIAL OUTLOOK

Needs. While the present financial outlook of Ottawa University is promising, if the New World Movement of the Northern Baptist Convention is successful, there is immediate and urgent need of money for the following purposes: (1) to complete the Commons Building, \$40,000; (2) to erect a Library Building, \$75,000; (3) to build a Dormitory for Girls, \$75,000; (4) for a Music Building, \$35,000; (5) to build a Dormitory for Boys, \$75,000; (6) for improvement of the campus and paving, \$10,000. Besides this the endowment must be increased to one million dollars as soon as possible. Contributions covering any of these items may be counted as a part of the New World Movement.

Annuities. There are persons who want to make sure that their funds will go to Ottawa University ultimately, but who need an income from such sources as long as they live. The annuity plan meets this requirement exactly. According to this plan cash or securities or real estate is given to the University for an Annuity Bond issued by the trustees that will give the donor a liberal rate of interest, determined by his age. The University has about \$125,000 on this plan at the present time.

Wills. An increasing number of friends of Christian education are remembering in the distribution of their estates such institutions as Ottawa University. Why not make it one of your "children"? Such a bequest may be made in your will as follows:

I give and bequeath to the Board of Trustees of Ottawa University, Ottawa, Kansas, the sum of \$.....(or the following described property) for the following purpose, to-wit:

Upon general principles it is better to give the cash to the trustees and permit them to use the funds as the needs of the University may demand. They are familiar with the most urgent requirements. A form of bequest that leaves the funds entirely in the hands of the Trustees is as follows:

I give and bequeath to the Board of Trustees of Ottawa University, Ottawa, Kansas, the sum of \$..... (or the following described property).

We urge upon the friends of Christian Education to make liberal provision for this vital phase of the work of the Kingdom.

The President of Ottawa University will gladly furnish information regarding any of these matters.

THE UNIVERSITY CALENDAR

1922

January 31, Tuesday—The Second Semester begins.

March 28, Tuesday—Mid-semester Reports.

April 14, 15, Friday and Saturday—Easter Recess.

April 21, Friday—Charter Day.

May 30-June 2—Final Examinations.

June 2, Friday—Oratorio, Gounod's Redemption.

June 4, Sunday, 10:30 a. m.—Baccalaureate Sermon by the President.
8:00 p. m.—Sermon before the Christian Associations.

June 5, Monday, 10:30 a. m.—Graduating Exercises of the Academy.
3:00 p. m.—Literary Contests.
8:15 p. m.—Senior Class Play.

June 6, Tuesday, 10:00 a. m.—Senior Class Day.
2:00 p. m.—Annual meeting of the Board of Trustees.
2:30 p. m.—Gymnastic Exhibition.
4:00 p. m.—Conservatory Recital.
6:30 p. m.—Alumni Banquet.

June 7, Wednesday, 10:30 a. m.—Commencement.
12:30 p. m.—Commencement Dinner.

September 12, Tuesday, 9:30 a. m.—First Semester begins.

November 14, Tuesday—Mid-semester Reports.

November 30, Thursday—Thanksgiving.

December 15, Friday, 4:30 p. m.—Holiday Recess begins.

1923

January 2, Tuesday, 8:00 a. m.—Holiday Recess ends.

January 23-25, Tuesday-Thursday—Mid-year Examinations.

January 30, Tuesday—Second Semester begins.

April 3—Mid-semester Reports.

BOARD OF TRUSTEES

Term Expires June, 1922

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Term Expires June, 1923

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Term Expires June, 1924

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 Mo.
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Term Expires June, 1925

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Officers of Charlton Cottage Committee: MRS. L. R. HIGGINS, Chairman; MRS. F. H. STANNARD, Treasurer.

Women's Educational Society: MRS. S. E. PRICE, President; MRS. F. H. STANNARD, Treasurer.

Chairman of Committee for Finding Homes for Girls: MRS. ROBERT TAFT, 930 South Cedar St.

* Deceased.

THE FACULTY AND OTHER OFFICERS

SILAS EBER PRICE, D. D., President.

MILAN LESTER WARD, D. D., Professor Emeritus of Mathematics.

WILLIAM B. WILSON, M. S., Dean. Professor of Biological Science.

LEONIDAS R. HIGGINS, Ph. D., Professor of Greek and Latin. Librarian.

ROWLAND HENRY RITCHIE, A. M., Professor of English.

ROBERT R. RUSSEL, A. M., Professor of History and Political Science.

ROBERT TAFT, M. S., Professor of Chemistry.

FLOYD N. HOUSE, A. M., Professor of Economics and Sociology.

LLOYD C. BAGBY, A. B., Professor of Mathematics.

HALE B. BLAIR, B. S., Professor of Physics.

PEARL CRAWFORD, A. B., Dean of Women; Professor of Home Economics.

LESTER A. HARTLEY, A. M., Professor of Education.

WARREN P. BEHAN, Ph. D., Professor of Bible and Religious Education.

LULU M. BROWN, A. M., Principal of the Academy.

ELMINA E. GRAHAM, A. M., Assistant Professor of English.

ELIZABETH McCONKEY, A. M., Assistant Professor of Spanish and German.

MABEL HARR, B. S., Physical Director of Women.

ROBERT E. BRANNAN, B. S., Physical Director of Men.

MARJORIE A. RICKARD, A. M., Assistant Professor of French.

LUMINA C. R. SMYTH, Ph. D., Assistant Professor of Biological Science.

CAROLINE MATTINGLY, A. M., Assistant Professor of English.

EDNA UMSTOT, A. B., Instructor in Economics and Commercial Subjects.

HAROLD W. BAILEY, B. S., Instructor in Mathematics.

RAYMOND C. PERRUSSEL, B. S., Instructor in Chemistry.

PAUL R. UTT, Dean of the Conservatory of Music. Teacher of Voice, Theory and History of Music.

MRS. PAUL R. UTT, Teacher of Piano and Organ.

LUCY K. FORBES, Mus. B., Teacher of Piano.

MARY NELSON, Teacher of Violin.

PORTIA VAUGHAN, Teacher of Public School Music.

ESTHER O'CONNOR, Recorder and Secretary to the President.

WALTER A. ROSE, Treasurer.

MARGARET STICKLER, Matron of Charlton Cottage.

FLORENCE KEETCH, Assistant in Biology.

ISABEL POTTER, Assistant in Biology.

LUCILE WILSON, Assistant in Biology.

HOWARD GLOYD, Assistant Curator of the Museum.

MANLY ROSS, Assistant in Chemistry.

RUFUS DEERING, Assistant in Physics.

FLORENCE KEETCH, Assistant in the Library.

MINNIE MACAULAY, Assistant in the Library.

EVELYN DEAN, Assistant in the Library.

FAYE CUSHING, Assistant in the Library.

MABEL CAIN, Assistant in the Library.

VERA STEIN, Assistant in the Library.

FACULTY COMMITTEES

Committee on Committees, Professors House, Taft, Ritchie; Advanced Standing, Professors Wilson, Hartley, Miss Brown; Athletics, Professors Wilson, Russel, Coach Brannan; Chapel and Other Services, Professors Ritchie, Utt, Blair, McConkey; Curriculum, Professors Taft, Bagby, Higgins, Russel, Wilson; Discipline, Professors Russel, Crawford, Miss Brown; Forensics, Professors Ritchie, Mattingly, House, Mr. Bailey; Library, Professors Higgins, House, Graham; Homes and Interests of Girls, Professors Crawford, Smyth, Misses Umstot, Harr; Social Life, Professors Rickard, Crawford, Blair; Publications and Publicity, Professors Ritchie, Taft, Higgins, Graham, Miss Umstot.

GENERAL INFORMATION

HISTORICAL SKETCH

Ottawa University is the result of missionary effort by Baptists among the Ottawa Indians. This was begun while the Indians were in Canada; it was continued during their migration westward and after their settlement in Kansas. This work was carried on with enthusiastic devotion by Rev. Jotham Meeker and his wife. The principal teachers among the Indians were Rev. John Tecumseh Jones, an Indian graduate of Madison (now Colgate) University, and his wife, Jane Kelley Jones, a native of Maine. At that time the Ottawas were occupying a reservation about twelve miles square in Franklin County. They had organized the First Baptist Church of Ottawa, Kansas. As early as 1860 it had about one hundred members.

While this missionary and educational work was being carried on among the Indians, the white Baptists of Kansas, true to the traditions of the denomination, which has always been the champion of higher education, had chartered the "Roger Williams University" and were discussing a location for it. The question of location came up at a meeting of the Baptist State Convention in Atchison in 1860. Rev. J. T. Jones was present as a delegate from the First Baptist Church (Indian) of Ottawa. He suggested that the white Baptists join with the Ottawa Indians in establishing a school on the reservation. The Indians had land that might serve as a basis for an endowment and the whites had money and teachers. A committee was appointed to confer with the Indians. They were found to be favorable and steps were taken to carry out the plan. Through the influence of Mr. Jones and this committee the matter was brought before Congress and an act was passed by which 20,000 acres of the reservation were set aside for the use of the institution of learning.

The same act named a Board of Trustees consisting of four Indians and two whites. The first meeting of this Board was held August 20, 1862. It authorized the sale of 5,000 acres at \$1.25 per acre in order to establish the school. For the next two or three years it appears that the school was attended by a considerable number of Indian children.

In 1865 at the request of the Indians the name "Roger Williams' University" was dropped and a new charter secured re-incorporating the school as Ottawa University. This charter was issued April 21, 1865, under the seal of William Tulloss, Probate Judge of Franklin County, to I. S. Kalloch, C. C. Hutchinson, John G. Pratt, J. T. Jones, James King, William Hurr and Henry King. These men constituted the first Board of Trustees and carried on the institution for a number of years under the dual management provided in the act of Congress granting them the land. For a variety of reasons this arrangement was not satisfactory to either of the races. In the adjustment of interests the Indians agreed to withdraw and leave the school entirely in the hands of the whites. It was agreed that the 640 acres retained by Ottawa University should be forever devoted to the purpose of education in Ottawa under the auspices of the Baptists of Kansas, that it should never be encumbered by mortgage and that the proceeds from the sale of any part of it should be used as an endowment. With this settlement of equities the history of Ottawa Uni-

versity begins. In 1873 the Board of Trustees was increased in number from six to twenty-four; in 1910 to thirty-six.

While the institution has been established, maintained and largely supported by Baptists, it is in no sense sectarian. It encourages Christian culture and a manly, genuine Christian life founded upon the Bible as the sole and sufficient authority in all matters religious. It teaches that a symmetrical character must include Christianity. Its equipment is adequate and its teachers are progressive.

The growth of the institution has been steady and sure. Up to 1895 the students in the Academy outnumbered those in the College; from then until 1900 the numbers in each were about equal; since 1900 the College has steadily outstripped the Academy. In 1921-22 the College students number 275, the Academy 33. The Academy is still retained, partly because of the unique advantages it offers, partly because many rural high schools cannot adequately prepare students for college.

The endowment funds were in 1890 about \$50,000; in 1900 about \$80,000; in 1910 about \$170,000. In 1922 the endowment is \$473,000. It is expected that as a result of the five year program of the Northern Baptist Convention the endowment in 1925 will be one million dollars. The total assets of the University in 1922 are about \$1,000,000. It is expected that the present campaign of the Northern Baptist Convention will bring the assets by 1925 to \$1,700,000.

The following men have been at the head of the institution: Rev. E. C. Anderson, Principal, 1874-76; Prof. P. J. Williams, President, 1877-1881; Prof. T. M. Stewart, Acting President, 1881-1883; Rev. M. L. Ward, President, 1883-1888; Rev. George Sutherland, Acting President, 1888-1890; Rev. Franklin Johnson, President, 1890-1892; Rev. F. W. Colegrove, President, 1892-1896; Rev. J. D. S. Riggs, President, 1896-1905; Prof. R. A. Schwegler, Acting President, 1905-1906; Rev. S. E. Price, President, 1906—.

LOCATION

Ottawa University is located at Ottawa, Kansas, fifty-eight miles southwest of Kansas City. Ottawa is on the main line of the Missouri Pacific railway, and is reached by the Santa Fe system from five directions. It has a population of about 10,000 and is the county seat of Franklin county. The city is supplied with natural gas, has an excellent municipal electric light plant, its own water works, and a large municipal auditorium, which was recently completed. The public Carnegie library is situated in Library Park, four blocks from the college campus. Facing this park is the fine, new city high school. Ottawa is a city of homes, strong churches and good schools. Many families have moved here for the purpose of educating their children.

CAMPUS AND BUILDINGS

The Campus of thirty-three acres is in the south side of the city. Several paved streets lead from the center of the city to the campus. The northwest entrance is at Ninth and Cedar streets. The main entrance for automobiles is at Tenth and Cedar streets.

Old Science Hall, the original college building, was built in 1869, burned in 1875 and rebuilt the same year. From 1903 to 1921 it was the Science Hall. Now it is used for museum purposes.

Charlton Cottage, the young women's dormitory, was erected in 1890 as a result of the arduous labors of Mrs. O. C. Charlton, for whom it was named. It is situated in a fine grove of trees in the northeast corner of the campus. It has reception rooms, matron's rooms, its own dining hall, good furnishings and accommodations for twenty-four young women.

University Hall was built in 1903 to replace a new and smaller building that was burned on September 10, 1902. It is a stone structure three stories in height, 73 by 152 feet in outside dimensions, with a width of 95 feet in the center. It contains the administration offices, two large fire-proof vaults, the chapel with 900 seats, two society halls, rest rooms, lavatories and coat rooms, thirteen rooms for class rooms and offices, the library, and the home economics laboratory.

The Gymnasium is a fine stone structure, built in 1914 at a cost of about \$35,000. The building is three stories high, 106 feet long and 70 feet wide. On the first floor are the physical directors' rooms, the lockers, dressing rooms, shower baths, and a modern swimming pool, 20 feet wide and 55 feet long. On the second floor are three rooms: a reception room, a kitchen, and a basket ball floor, 66 by 86 feet in size. The third floor contains a handball court and a gallery with running track.

Ward Science Hall, erected in 1920, is built of native stone with Bedford, Indiana, cut stone trimmings. It is three stories high, 125 feet long and 62 feet wide. The basement floor is for the department of Physics and Engineering, the first floor for Biology, the second floor for Chemistry. Each floor contains one large lecture room that will seat 125 persons, three large laboratories, two small laboratories, a dark room, a store room, and an office. The laboratories are supplied with water, gas, electricity, both alternating and direct current, and apparatus sufficient to do excellent work.

The Central Heating Plant, 40 by 60 feet in dimensions, stands just north of the gymnasium. It was erected in 1920 as part of a larger building, 60 by 100 feet, to be completed in the future, having a large kitchen and dining hall on the main floor and the department of Home Economics on the upper floor. The heating plant is equipped with two boilers having a capacity of 125 horse power each. At present one boiler is sufficient to supply steam heat for our three largest buildings.

The Athletic Field is very conveniently located 100 feet east of the gymnasium. The old frame building that once served as a gymnasium now stands near the southeast corner of the campus. Several trees were removed and extensive grading was done in 1921. 5,600 cubic yards of dirt were removed. The football gridiron is in the center of the field. Around it is a quarter mile cinder track. On the west edge of the field is a 220 yard straight-away track. Bleachers will be erected first on the west side, later on the east. On the field and the paved way that approaches it about \$7,000 have already been spent. About \$5,000 more will be expended in the near future. When this is done, the athletic field as a whole will be one of the best fields in the state.

The Conservatory of Music is located at the corner of Fourth and Main streets, where it can be easily reached by citizens as well as by students. It has a reception room, several teaching rooms and a large recital hall.

EQUIPMENT

The Biological Laboratories. These laboratories with the lecture room, store room and office occupy the entire first floor of Ward Science Hall. The furniture is new and ample and the equipment has been greatly increased. Work in Botany, Zoology, Physiology and Bacteriology may be carried on under the most favorable surroundings. The building is excellently lighted and heated. Water, gas and electricity are fully supplied.

In General Biology 80 students may work at one time. The student is supplied with locked drawer, dissecting and compound microscopes, dissecting needles, glassware and other necessary equipment. In Zoology and Botany the equipment is the same as for General Biology.

The Bacteriology Laboratory is supplied with oil immersion microscopes, autoclaves, ovens, incubators and ample glassware. Lockers are supplied for each student.

The laboratory for Histology and Cytology is supplied with microscopes, simple and compound, paraffin bath, bake oven and three good microtomes. Lockers are provided for each student.

The Chemical Laboratories. The chemistry department is located on the second floor of Ward Science Hall and includes four laboratories, a library room, a lecture room, a store room, a dark room, a balance room and an office. The general laboratory will accommodate at present one hundred and forty-four students working in two sections. There is room, however, for two more desks which will increase the capacity of the laboratory to nearly two hundred. A smaller laboratory is provided for the students of organic chemistry and quantitative analysis. It has a capacity of thirty-six students, at present, which can be increased to fifty. The physical chemistry laboratory will accommodate twenty students. A small dark room opens from this laboratory, for work in spectroscopy and polarimetry. The balance room lies between the laboratories of physical chemistry and quantitative analysis. A fourth laboratory is provided for the use of the head of the department. All the laboratories are provided with running water, natural gas, direct and alternating current, while the laboratory of quantitative analysis has in addition to the above, hot water and compressed air. The furniture for the laboratories was provided by the Kewanee Manufacturing Company. The lecture room occupies the southwest corner of the floor and will seat over one hundred.

Other equipment of the department in the form of apparatus, chemicals, and miscellaneous supplies is up to the standard set by the building itself. It is sufficient to give thorough instruction in the courses offered. Special pieces of apparatus which might be mentioned are electrically heated and controlled thermostatic water bath, electric drying oven, electric furnace, stirring motors, spectroscope, polariscope, platinum crucibles, dishes, electrodes, a type Q Ainsworth balance, a Leeds and Northrup student potentiometer, a Saybolt universal viscosimeter and a Kohlrausch bridge.

The Physical Laboratories. The department of Physics occupies the entire ground floor of Ward Science Hall. It has a well-equipped lecture room, three main laboratories, a splendid dark room, a departmental library and two large apparatus rooms. Each room is supplied with water, gas and electricity, both alternating and direct cur-

rent. The main laboratories are equipped with stone piers and hard wood tables and are especially well heated, lighted and ventilated.

The apparatus is sufficient to show in lectures all the experiments usually given in college physics and to enable the student to perform in the laboratory most of the experiments described in laboratory manuals of college physics. A partial list of the most important pieces of the laboratory equipment would include the following: One X-ray machine, one Foucault heliostat, one cathetometer and one spherometer (Societe Genevoise), two spectrometers, one measuring microscope, two motor-generator sets, one four horse power gas engine, one 1-kw. rotary converter, one three-fourths horse power direct current motor, five transformers, two Geryk air pumps, one Schmidt and Haensch polariscope, D. C. and A. C. ammeters, voltmeters, wattmeters, standard condenser (Leeds and Northrup), earth inductor, optical disc, six-inch induction coil, a large number of Geissler, Crooks, and X-ray tubes for the study of electrical discharges in high vacua, and a spinthariscopes for demonstrating radium energy. This department has recently installed a new Grebe C. R. 8 receiving wireless set with two-stage amplifier and Vocaloud, and has secured a Press Graflex, 5x7 costing \$280, adequate to the demands of the most rapid and exacting photography.

The entire Science Hall is one of the best in Kansas, splendidly equipped, with ample facilities for giving all the courses offered in Physics, Biology and Chemistry.

Home Economics Laboratory. This department now occupies the large room under the chapel. In the foods section each student is provided with adequate individual equipment. The sewing equipment includes six large tables for drafting and cutting, drafting squares, drafting paper, sewing machines, electric iron, pressing board and long mirror.

Mechanical Drawing. This department is located in a room in the basement of University Hall. Each student has an individual drafting table. Mechanical Drawing is given during the Freshman and Sophomore years and is taken by those students preparing for technical work, and also by those scientific students who are specializing in physical science.

Surveying. The equipment for surveying consists of a Gurley engineer's transit with vertical circle and stadia wires; a Keuffel and Esser engineer's Y level; a Winsor transit, rods, tapes, chains, slide rules, planimeters and other minor instruments.

The Museum has been almost entirely re-classified recently by one of the best experts in this country. Liberal use is made of these specimens in the study of Geology and Biology.

The Crevecoeur Entomological Collection contains 18,000 specimens of insects representing more than 7,000 species. In some ways it is the most valuable collection of insects in the state. The specimens are properly named and classified. The cases are labeled so as to be readily available for use in classes and are kept securely in a large steel cabinet. This collection amply supplies much needed material for economic as well as biologic study and research. The donor, Mr. F. F. Crevecoeur of Onaga, also presented the college with a fine herbarium of flowering plants from the Middle West.

The Library contains over 11,000 volumes. The books are mostly

recent and have been carefully selected to meet the needs of each department of the college. They are classified according to the Dewey system and are easily accessible. The library is well supplied with encyclopedias and other reference books. About seventy periodicals are now regularly received. There are separate departmental libraries in Ward Science Hall for the immediate needs of the students working there.

EXPENSES

We all recognize the rapidity with which the cost of living has advanced during the past few years. Educational institutions have felt it very keenly. The Trustees of Ottawa University have not attempted to advance the tuition and fees in proportion to the increased cost of living. They, however, believe that the income from students' fees should provide for at least two-fifths of the current expenses of the institution. When compared with similar charges in larger colleges and universities these fees will be found very moderate.

Tuition and Regular Fees:

Tuition, each Semester	\$25.00
Incidentals, each Semester	8.00
Library Fee, each Semester	4.00
Student Enterprise Fee, each Semester	3.00

Board and Room—A large majority of the students secure rooms and board with families near the campus. A list of approved rooms is kept in the University office. Several boarding clubs are formed each year. In these at the present time board costs about \$5.00 a week. Young ladies who desire to engage room and board in Charlton Cottage should correspond with the Matron, Miss Margaret Stickler, before the opening of the semester. The cost of room and board at the Cottage this year has been \$6.75 or \$7.00 a week according to the room occupied. The rooms in the Cottage are furnished, but students are required to provide their toilet articles and linen.

Financial Aid—Approved students for the ministry who are in the third year in the Academy or above may expect to receive aid equal to the tuition from funds designated for that purpose. Children of ministers actually engaged in the ministry will receive a concession of one-half the tuition. There are about twenty endowment scholarships, each of which provides for the tuition of one student. The Women's Educational Society has a fund from which loans are made without interest to worthy students. Employment can often be secured in the city both by young men and by young women. In this way several students can earn enough to pay part or even all of their expenses. Any student who wishes such work should write to the President of the University.

Laboratory Fees:

Astronomy	\$1.00
Biological courses, except 1 and 9, each	4.00
Biological courses, 1 and 9, each	6.50
Chemistry, 1a, 1b, each	7.50
Chemistry, 2, per hour	2.50
Chemistry, 3, per hour	2.00
Chemistry, 4	6.00
Chemistry, 5	6.00
Chemistry, 6, per hour	2.00

Home Economics, A, Academy Course	4.00
Home Economics, B, Academy Course	1.00
Home Economics, 1	5.00
Home Economics, 2	5.00
Home Economics, 3	1.00
Home Economics, 4	6.00
Home Economics, 5	5.00
Home Economics, 7	4.00
Physics, 1, 2, A, B, C, D, each	4.00
Physics, 5, 8, each	6.00
Physiology, A	3.00
Physiography	2.00
Psychology, 2	3.00
Psychology, 5 (Education 5)	2.00
Surveying	3.00
Typewriting	3.00

Registration Fee—This fee is one dollar, but will be remitted if the registration is made on the first two days of the semester.

Tennis Fee—This is required only of those who use the University courts and is 50c per semester.

Graduation Fees—For every degree conferred by the College of Liberal Arts and by the Conservatory of Music a fee of five dollars is collected. For graduation from the Academy, and for the certificate in Music a fee of two dollars is charged.

Special Regulations Regarding Fees and Charges—Students who register for less than twelve hours of work shall pay at the rate of \$3.50 per semester hour, not including Student Enterprise ticket. This rate applies both to the College and the Academy.

Students taking more than sixteen semester hours' work in the College or twenty semester hours in the Academy, at one time, shall pay in addition to the regular charges \$3.00 per semester hour in the College and in the Academy, for each additional hour.

Students entering late in the semester with the expectation of making up the work already done in the classes shall pay the regular charges for the semester; students present one-half of the semester or less shall pay \$1.75 per week for the time they are present.

No fees will be refunded after the first week of the semester. Any student who on account of sickness or other reasons (except discipline) is obliged to withdraw from the institution during the semester may receive a credit certificate for the unused amount of his tuition. This may be used by him or any member of his family at a later time.

These fees and charges are subject to change without notice by the Board of Trustees.

SCHOLARSHIPS AND DESIGNATED FUNDS

These provide for the tuition, in some cases for the tuition and fees, of worthy students. Usually each scholarship or fund bears the name of the donor or donors; sometimes the name of a member of the donor's family.

The following scholarships are now available:

The Sarah E. and Ella E. Alderson

The Alumni of Ottawa University in honor of M. L. Ward
 The Ernest E. Anderson
 The Abigail Bevington
 The George W. Blattler
 The Theodore F. and Cynthia E. Bradbury
 The Simeon Cole
 The Nonie Pratt Gibson
 The Harry W. and Jennie M. Grass
 The James P. and Sallie D. Hall
 The Luceba and William F. Holroyd
 The C. L. and C. G. Kinney
 The Pearl B. Kellogg
 The Abraham C. and Eliza F. Miles
 The William M. Moore
 The Edwin and Louisa Potter
 The Octavia Reed
 The Cordelia Russell
 The Royal E. Sheldon
 The J. W. Tate
 The Harriett Chase Tyler
 The Henry H. and Hattie E. Twining

Other Scholarships are partly paid up and will be available as soon as paid for in full.

There are also the following Scholarship Funds:

The John Tecumseh Jones Fund, \$5,387.45

The H. O. Slocumb Fund, \$1,000.00

The Mrs. Blanchard Fund, \$807.50

The Fern Willis Memorial Fund, \$1,000.00

The Filson-Shoemaker Fund of the Class of 1909, \$1,025.00

The Elizabeth May Higgins Memorial Fund of the Class of 1917, \$1,000.00

The Liberty Fund of the Class of 1918, \$1,100.00

The George S. Holt Memorial Fund, \$700.00

The Frank Searcy Memorial Fund, \$1,000.00

Merrick K. Barber Endowment Fund, \$10,000.00

Young Women's Missionary Fund, \$1,000.00

There are other funds designated for Scholarships, but they are not available at the present time.

Library Funds:

The Grovenor Library Fund of \$1,000.00

The Becker Library Fund of \$500.00

The E. K. Chandler Library Fund of \$1,000.00

University Scholarships—The Trustees will grant a scholarship covering tuition for one year in the College to each accredited High School and Academy in the State, to be given to that member of the graduating class of that current year who ranks first in scholarship.

A similar scholarship good for tuition for one year in the Academy will be given to the highest ranking graduate in the non-accredited High Schools and the County Common Schools.

These scholarships are granted to encourage students to continue their education. It is necessary for those entitled to these scholarships to present a certificate signed by the Principal, Superintendent or County Superintendent, as the case may be, and Prof. D. L. McEachron, secretary of the Kansas College President's Asso-

ciation. Blanks for this purpose may be secured from the local schools or from Prof. McEachron, Washburn College, Topeka.

PRIZES AND TROPHIES

The Junior Oratorical Contest, open to members of the Junior Class. First prize of ten dollars; second, of five dollars.

The Sophomore Essay Prizes, the first of ten and the second of five dollars. Awarded to members of the Sophomore class.

The Freshman Latin Prizes. The First National Bank of Ottawa gives a first prize of ten dollars, and a friend, a second prize of five dollars to the Freshmen who rank respectively first and second in the Latin work of the year.

The Freshman Declamation Prizes, amounting to ten and five dollars, are awarded to Freshmen who excel in declamations.

Debate Prizes, the first twenty-five dollars, the second of twenty dollars, are given by two business men of Ottawa to the two best debaters of the year.

The Coleman Oratorical Prizes, the first of twenty-five dollars, the second of fifteen dollars, given by W. C. Coleman of Wichita, are awarded to the students ranking first and second in college oratory.

The Stanley Hageman Memorial Prizes of the Class of 1899, the first of fifteen dollars, the second of ten dollars, given by S. S. Hageman, are awarded to the two members of the graduating class who rank first and second in scholarship and student activities.

Freshman-Sophomore Class Cup, presented by the class of 1904. Awarded to the winners of the Inter-class Debate.

Football Cup. Awarded to the College class winning the inter-class football contest.

Schmelzer Arms Cup. Awarded to the Academy class whose girls excel in athletics.

M. L. Ward Cup. Awarded to the Academy class whose boys excel in athletics.

Declamation Cup. Awarded to the Academy class which excels in declamation and debate.

Academy English Prize, consisting of ten dollars, given by Miss Hope Converse in honor of her mother, Mrs. C. C. Converse, awarded to the member of the graduating class in the Academy who has excelled in English. Not given to the winner of the Academy scholarship.

Lowe and Campbell Cup. Awarded twice a year to the winner of the men's tennis tournament.

Armstrong Cup. Awarded twice a year to the winner of the women's tennis tournament.

GENERAL REGULATIONS

Entrance—Students who have completed the eight grades in the public schools are admitted to the first year in the Academy without examination. Admission to any class higher than the first year in the Academy may be secured either by examination or by certificate. The certificate must cover these facts: subject studied, text book, length of recitation, number of weeks and grade earned. A blank for the purpose can be secured by addressing the President

of Ottawa University. These certificates should be mailed to Ottawa University before the opening of the semester. Students who present certificates from High Schools accredited by the University of Kansas will be given full credit for all the work that they have done. Candidates who present their grades by mail may learn in advance to what extent their credits will be approved.

Registration—Rules regarding registration, examinations, absences, deficiencies, also athletics and other public contests, will be placed in the hands of the students at the beginning of the college year.

Grades—The class standing of students is expressed by the letters A, B, C, D, E, F, I, WP and WF. A indicates excellent work, B good work, C fair work, D poor work but of passing grade, E a condition, which may be removed by special examination, F failure, when the work must be done again in order to receive credit, I incomplete work, which may be made up without a special examination; WP signifies a student withdrew from the class with a passing grade, WF means withdrew failing. A statement of the Freshman, Sophomore and Academy grades is sent to the parents or guardians at the middle and at the close of each semester.

Excess Work—No college student will be allowed to carry more than 17 hours of recitations per week for the first semester in residence. Students whose work is of sufficiently high quality may thereafter, with the consent of the Registration Committee, take 18 hours' work. In no case may a student carry more than 18 hours, except by consent of the Faculty.

STUDENT ORGANIZATIONS AND ACTIVITIES

Student Council—The Student Council is composed of eleven members, one from each class in the College, three from the Academy and four from the student body at large. This Council has in charge certain student enterprises. Every student has a vote in electing the Council. Regular reports are made by the Council to the student body. In this way every student has a part in the management of student enterprises.

The Campus—This is a weekly paper issued by the students during the academic year. The editor and business manager are elected by the student body under the direction of the Student Council. While it requires a large amount of a student's time, it gives splendid practice in journalism and business management.

Oratory—The Student Council provides for a local oratorical contest each year. The winner in this contest represents the University at the State Oratorical Contest. Also the students participate in the State Prohibition Oratorical Contest and the Peace Contest.

Debates—Several inter-collegiate debates are held each year under the direction of the Student Council. In addition to the inter-collegiate debates there are regularly the inter-society, and the Freshman-Sophomore debates.

Athletics—The College usually maintains football, basketball and baseball teams, tennis and track athletics. Several tennis courts on the campus are in use during the season.

Literary Societies—Two literary societies—the Philaethean and

Olympian—have fine halls in which weekly meetings are held. The Academy also has a literary society.

Christian Associations—The Y. M. C. A. and the Y. W. C. A. hold devotional meetings each week. Group classes meet regularly for Bible study or for Mission study. Also Gospel team work and Sunday School classes are maintained.

Orchestra—The College Orchestra is one of the most prominent and unique student organizations. It assists in the daily chapel exercises, gives occasional concerts at home and also in neighboring cities.

The Ministerial Association—The students who have the ministry in view have formed an association to consider topics of special interest to themselves. Occasionally speakers from the city or abroad are invited to address this body.

The Volunteer Band—The students who are looking forward to foreign missionary work meet each week to study some phase of the work.

French Club—The students in the department of French have organized a French club for the purpose of encouraging conversation and promoting an interest in the spoken language. The programs are composed of songs, games and the like. Any student is eligible for membership who has completed French 1 or the equivalent.

Spanish Club—The students of Spanish have organized a club, "Centro Hispano," for the sake of fostering interest in Spanish and giving opportunity for conversation in that language. Music and games generally make up the programs of the meetings, held once each week. Students who have completed Spanish 1 or its equivalent may join the club.

THE COLLEGE OF LIBERAL ARTS

REQUIREMENTS FOR ADMISSION

In harmony with the other accredited colleges in Kansas, Ottawa University requires fifteen units for unconditional admission to the College of Liberal Arts. (A unit as here used is a subject pursued for thirty-five weeks in an accredited High School or Academy, with recitation periods aggregating each week not less than two hundred minutes.) Students presenting fourteen units will be entered conditionally with the understanding that the unit lacking will be made up during the first year in college.

The following "schedule of admitted units," arranged in six groups, indicates the amount of work that may be presented in each group, and the amount required. The work covered in these subjects is that which is outlined in the "Course of Study for the High Schools of Kansas" issued by the Board of Education. Half units are not acceptable except as indicated in the schedule.

Schedule of Admitted Units

Group I. English: Minimum, 3 units; maximum, 4 units.

Group II. Foreign Languages: Minimum, 2 units. Any of the following languages may be chosen: Latin, 1 to 4 units; Greek, 1 to 3 units; German, 1 to 4 units; French, 1 to 3 units; Spanish, 1 to 3 units; Swedish, 1 to 2 units.

Group III. Mathematics: Minimum, 2 units. Elementary Algebra, $1\frac{1}{2}$ units; Plane Geometry, 1 unit; Solid Geometry, $\frac{1}{2}$ unit; Advanced Algebra, $\frac{1}{2}$ unit; Plane Trigonometry, $\frac{1}{2}$ unit.

Group IV. History: Minimum, 1 unit. Ancient History, 1 unit; Medieval and Modern History, 1 unit; English History, 1 unit; American History, 1 unit; Economics, 1 or $\frac{1}{2}$ unit; Civics, 1 or $\frac{1}{2}$ unit.

Group V. Science: Minimum, 1 unit. Physical Geography, 1 or $\frac{1}{2}$ unit; General Science, 1 or $\frac{1}{2}$ unit; Physics, 1 unit; Chemistry, 1 unit; Botany, 1 unit; Elementary Biology, 1 unit; Zoology, 1 unit; Physiology, $\frac{1}{2}$ unit; Agriculture, 1 or $\frac{1}{2}$ unit.

Group VI. Miscellaneous: Minimum, none; maximum, 4 units. Wood-working, Domestic Art, Domestic Science, Domestic Art and Science, Bible, Music, each 1 or $\frac{1}{2}$ unit; Commercial Law, Commercial Geography, Psychology, Methods and Management, History of Commerce, each $\frac{1}{2}$ unit; Forging, 1 or $\frac{1}{2}$ unit; Bookkeeping and Stenography, each 1 to 2 units; Typewriting and Drawing, each $\frac{1}{2}$ to 2 units.

The specific requirements may be stated as follows: English, 3 units; one foreign language, 2 units; Mathematics, 2 units; History, 1 unit; Science, 1 unit.

At least three units must be presented in some group other than Groups I and VI. It is preferred that the Foreign Language requirement be Latin in all cases except that of engineering students. In their case a modern language should be presented. It is wise for students to plan their course so that their work in college shall be a continuation of their work in High School in at least three subjects, in order to avoid a violent break between High School and College.

Accredited High Schools and Academies

Students from accredited high schools or academies are required to present a certificate signed by the head of the school stating in detail the amount of work done. Blank certificates for this purpose can be had by addressing the President.

Students coming from schools not fully accredited are advised to bring a complete statement of all work that they have done, including text books used, length of time spent on each subject, note books, etc. Each such case will be settled upon its own merits. Examinations will be required only in cases where it is not clear that the work has been up to the standard. In no case, except from the Academy of Ottawa University, will it be sufficient to present a diploma. Credits given upon certificates are conditioned and may be withdrawn if the work of the student shows his preparation to have been superficial.

Advanced Standing

Students presenting credits from approved colleges will receive advanced standing for all work done in such institutions. Advanced standing for work done in a preparatory school may be granted only by vote of the faculty, except that college credit for fourth year English, for German, French, Spanish, Swedish, Latin, Physics, Chemistry, Botany, and third year Mathematics, may be granted by the Committee on Advanced Standing upon the following conditions: 1. Application for advanced standing shall be made during the first year of college residence. 2. Application for advanced standing will be considered only with reference to work done in excess of the requirement for graduation from the secondary school of which the applicant is a graduate. 3. The applicant for advanced standing shall take an examination on the subject matter concerned; provided, however, that the instructor concerned may grant credit on the basis of the quality of work done in continuation of the same subject. 4. The examination shall be held on the first Wednesday in March.

Classification

The Academic year is divided into two semesters. The unit of work is a subject carried for one hour a week for one semester and designated "one semester hour." Two or three hours of laboratory or field work are counted as one semester hour.

A student is classified as Freshman who has presented not less than fourteen units for admission. He will be classed as Sophomore, when he has made up the deficiency in entrance credits and has completed not less than twenty-one semester hours of work; as Junior, when he has completed fifty-two hours of work; as Senior, when he has completed eighty-three hours of work.

REQUIREMENTS FOR GRADUATION

Groups of Subjects

The work of the College of Liberal Arts is divided into the following groups:

1. English Language and Literature.
2. Ancient Languages—Greek and Latin.
3. Modern Languages—German, French and Spanish.
4. Mathematics and Physics.
5. Chemistry and Geology.

6. Biological Sciences.
7. History and Political Science.
8. Economics and Sociology.
9. Philosophy, Psychology and Education.
10. Bible and Religious Education.
11. Home Economics and Music.
12. Physical Education.

Required Work

In the Freshman and Sophomore years at least five semester hours of work must be taken from each of four groups out of the first ten groups. Before graduation at least five semester hours must be taken in each of seven groups out of the first ten groups. At the close of the Sophomore year each student shall choose a major and a minor group. He shall during his course complete at least twenty-six semester hours of work in his major group, and thirteen semester hours in his minor group, subject to such conditions as the department concerned may prescribe. In the selection of minors, German, French, Spanish, Philosophy (inclusive of Psychology), Chemistry, Physics and Education shall each be considered a distinct group. Students who complete 124 semester hours of work with at least 90 honor points shall be recommended for the degree of A. B. if their major subject is chosen from Groups 1, 2, 3, 7, 8, 9, or 10; for the degree of B. S. if their major is chosen from Groups 4, 5, 6, 11, or 12.

Before choosing his major and minor groups the student should advise with the heads of the departments which he chooses. All Juniors and Seniors must secure the approval of the head of the department in which their major subject is taken before presenting their schedule for the approval of the registration committee.

In reckoning of majors, Philosophy and Psychology may be counted in group 10, Greek Civilization and Roman Civilization in group 7.

The following courses are prescribed for all candidates for a Bachelor's degree: English 1 and 2, a laboratory science five hours, foreign language, inclusive of that offered for admission, equal to four entrance units, Psychology three hours, Christian Ethics, two hours, Christian Evidences two hours.

Candidates for the Bachelor's degree must spend at least one year, and that the last, in residence work at the University and must earn at least thirty hours' credit while in residence at Ottawa University, but the faculty may exempt from this rule by special action in individual cases students who have credit for at least ninety hours' work done in residence and in attendance at regular classes at Ottawa University, and who submit correspondence or summer school requirements not to exceed twelve hours. Beginning with the fall of 1922, no student will be granted a degree from Ottawa University if he (or she) completes his (or her) residence work elsewhere, except as special exceptions are made for summer school work as noted above.

A reading knowledge of modern languages is advisable for all students who are planning to do graduate work at any university.

Honor Points

The quantity of a student's work is designated by semester hours. the quality by honor points, which are determined as follows: For

each semester hour's work in which a student receives the grade of A three honor points are given, for B two honor points, for C one honor point, for D no honor. In order to be graduated a student must earn ninety points during his entire course. No student will be promoted from one year to the next until he has made at least 15 honor points for the year.

Final honors are awarded as follows: A student who has secured 300 or more honor points during the course will be graduated with first honors, one who has secured less than 300 but as many as 260 will receive second honors.

Students who do less than 124 hours' work in Ottawa University, bringing credits from other institutions, shall be required to make for graduation honor points amounting to three-fourths the number of hours done in Ottawa University; for first honors such students shall make honor points amounting to five-sixths of the number of hours done in Ottawa University, for second honors they shall make points amounting to three-fourths the number of hours done in Ottawa University.

Class scholarship honors are awarded as follows: "First honors" are awarded at the end of each year to those members of each of the four classes who have secured 75 or more honor points during the year; "second honors" to those who have secured less than 75 and more than 64 honor points.

To be eligible to these honors one must have no failures or unremoved conditions on the year's record.

STATE TEACHERS' CERTIFICATES

Ottawa University is an accredited college under the state laws of 1893 and 1889. Students who complete specified work in Psychology and Education receive the State Teachers' Certificates described under Courses in Education.

The Board of Recommendations has a thoroughly organized system for securing positions for students and graduates who complete work required for the state certificates. We are able to place all of these and could place many more. It is also the duty of the Board of Recommendations to work for the graduates of the College who are teaching. Students who come to Ottawa University to prepare for teaching need have no fear about securing a position.

SUGGESTED COURSES OF STUDY

The following plans are presented to show typical combinations of subjects leading to specific purposes or careers. These are not the only combinations possible; others may be made to suit other needs and callings. The student should freely consult the Dean and various instructors in order to plan his studies most advantageously.

Course leading to Agriculture

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
History 1	2 hours	History 2	3 hours
Biology	5 hours	Chemistry 1a	6 hours
Trigonometry	2 hours	Surveying	2 hours
College Algebra	3 hours	Roman Civilization	2 hours

SOPHOMORE YEAR

Psychology, General	3 hours	Rural Problems	3 hours
Chemistry 1b	6 hours	Organic Chemistry	5 hours
Zoology, Invertebrate	3 hours	Zoology, Vertebrate	3 hours
Modern Language	5 hours	Modern Language	5 hours

JUNIOR YEAR

Botany	3 hours	Botany	3 hours
Principles of Business	2 hours	Entomology	3 hours
Physics	5 hours	Money and Banking	3 hours
Apostolic Age	3 hours	Physics	5 hours
Elective	3 hours	Elective	2 hours

SENIOR YEAR

Christian Ethics	2 hours	Christian Evidences	2 hours
Hebrew History	2 hours	Agriculture	3 hours
American History	3 hours	Bacteriology	2 hours
Elective	8 hours	Elective	8 hours

Course leading to Business or Law

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric	3 hours	Rhetoric 2	2 hours
History 1	2 hours	History 2	3 hours
or		or	
Greek Civilization	2 hours	Roman Civilization	2 hours
Biology	5 hours	Chemistry 1a	6 hours
College Algebra and		Analytic Geometry	5 hours
Trigonometry	5 hours	or	
or		Modern Language	5 hours
Modern Language	5 hours		

SOPHOMORE YEAR

Chemistry 1b	6 hours
General Psychology	3 hours
Principles of Economics	5 hours
Electives	2 hours

Physics 1 and 2 may be carried through the year, in which case Chemistry 1b would probably not be taken. It is important to take Principles of Economics at this time.

The courses for the second semester of the Sophomore year may be elected by the student with the advice of members of the faculty, especially the head of the department of Economics and Sociology. Courses in History, Mathematics, and Economics are desirable, or Principles of Sociology may be permitted, but not too much advanced work in Economics should be taken in the Sophomore year.

JUNIOR YEAR

(Consult the head of the Department of Economics and Sociology)

Advanced courses in		Advanced courses in	
Economics	2 to 4 hours	Economics	2 to 4 hours
American Government	3 hours	Principles of Sociology	5 hours
History	3 hours	State Governments	2 hours
Electives	6 to 8 hours	History	3 hours
		Electives	3 to 5 hours

It is very desirable for the student preparing for business to elect Physics 1 and 2 at some time during his four years.

SENIOR YEAR

Advanced Courses in		Advanced Courses in	
Economics	3 to 5 hours	Economics	3 to 5 hours
Sociology	2 to 3 hours	Christian Evidences	2 hours
Christian Ethics	2 hours	Electives	9 to 11 hours
Electives	4 to 6 hours		

Students preparing for business careers, and those planning to enter law school, should consult the head of the department of Economics and Sociology at every registration, beginning at least with the Sophomore year. In general the following conditions are desirable: Principles of Economics should be taken in the Sophomore year. Mathematics, History, and the beginning courses in Physics and Chemistry are very desirable. It may be advisable in some semesters to cut the registration to fifteen hours or less and take the academy courses in Bookkeeping and Typewriting without credit. The exact offerings in Economics cannot be guaranteed for the future, but after the Sophomore year the student should be prepared to elect such advanced and specialized courses as are offered; they will be alternated to some extent from year to year.

Course for Chemists
FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
College Algebra	3 hours	Analytic Geometry	5 hours
Trigonometry	2 hours	Chemistry 1a	6 hours
Biology	5 hours		
Elective	3 hours	Elective	3 hours

SOPHOMORE YEAR

Differential Calculus	3 hours	Integral Calculus	3 hours
Physics 1	5 hours	Physics 2	5 hours
Chemistry 1b	6 hours	Organic Chemistry	5 hours
Elective	2 hours	Elective	3 hours

JUNIOR YEAR

Organic Chemistry	5 hours	Quantitative Analysis	5 hours
Quantitative Analysis	3 hours	German	5 hours
German	5 hours	Elective	5 hours
Elective	3 hours		

SENIOR YEAR

Physical Chemistry	4 hours	Physical Chemistry	4 hours
Christian Evidences	2 hours	Christian Ethics	2 hours
Elective	9 hours	Senior Chemistry	
		Thesis	5 hours
		Elective	4 hours

Course in Home Economics

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
Biology	5 hours	Chemistry 1a	6 hours
Home Cooking		Home Architecture and	
or Elective	3 hours	Sanitation	2 hours
Clothing 1	4 hours	Clothing 2	4 hours
		Elective	2 hours

SOPHOMORE YEAR

Chemistry 1b	6 hours	Physiological Chemistry	4 hours
Zoology	3 hours	Physiology	3 hours
Psychology	3 hours	Entomology	3 hours
Foods 1	3 hours	Elementary Dietetics	4 hours
		Elective	2 hours

JUNIOR YEAR

Physiological Chemistry	4 hours	Foods 2	5 hours
Bacteriology	3 hours	Principles of Economics	3 hours
Principles of Economics	3 hours	Elective	7 hours
Elective	6 hours		

SENIOR YEAR

Christian Evidences	2 hours	Christian Ethics	2 hours
Textiles	3 hours	Household Management	3 hours
Elective	11 hours	Elective	11 hours

Course Leading to Journalism

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
History 1	2 hours	History 2	3 hours
or		or	
Greek Civilization	2 hours	Roman Civilization	2 hours
Biology	5 hours	Chemistry 1a	6 hours
French or Spanish	5 hours	French or Spanish	5 hours

SOPHOMORE YEAR

Psychology 1	3 hours	Social Psychology	3 hours
History of Eng. Lit.	3 hours	History of Am. Lit.	3 hours
Advanced Composition	2 hours	Advanced Composition	2 hours
Social Problems	3 hours	Rural or City Problems	3 hours
Elective	5 hours	Elective	5 hours

JUNIOR YEAR

Political Science	3 hours	Journalism	2 hours
Journalism	2 hours	Shakespeare's Trag-	
Shakespeare's Comedies	3 hours	edies	3 hours
Elective	7 hours	Elective	10 hours

SENIOR YEAR

Christian Evidences	2 hours	Christian Ethics	2 hours
Life of Christ	3 hours	Apostolic Age	3 hours
Elective	10 hours	Elective	10 hours

Pre-Engineering Course

FRESHMAN YEAR

First Semester		Second Semester	
College Algebra	3 hours	Analytic Geometry	5 hours
Trigonometry	2 hours	Descriptive Geometry	2 hours
Mechanical Drawing	2 hours	Chemistry 1a	6 hours
Rhetoric 1	3 hours	Rhetoric 2	2 hours
Biology	5 hours	Mechanical Drawing	1 hour

SOPHOMORE YEAR

Differential Calculus	3 hours	Integral Calculus	3 hours
Physics 1	5 hours	Physics 2	5 hours
Chemistry 1b	6 hours	Quantitative Analysis	5 hours
Surveying	3 hours	Surveying	3 hours

JUNIOR YEAR

Electric and Magnetic		Modern Language	5 hours
Circuits	4 hours	Machine Drawing	3 hours
Modern Languages	5 hours	Mechanics	5 hours
Psychology	3 hours	Elective	3 hours
Elective	4 hours		

SENIOR YEAR

Christian Evidences	2 hours	Alternating Currents	5 hours
Elective	13 hours	Christian Ethics	2 hours
		Elective	9 hours

Pre-Medical Course

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
Trigonometry	2 hours	Chemistry 1a	6 hours
Biology	5 hours	Physiology	3 hours
Modern Language	5 hours	Modern Language	5 hours

SOPHOMORE YEAR

Physics 1	5 hours	Physics 2	5 hours
Chemistry 1b	6 hours	Bacteriology	3 hours
Modern European Hist.	3 hours	Organic Chemistry	5 hours
Zoology	3 hours	Modern European Hist.	3 hours

JUNIOR YEAR

Organic Chemistry	5 hours	Quantitative Analysis	3 hours
Botany	3 hours	Botany	3 hours
Modern Language	5 hours	Zoology	5 hours
Elective	3 hours	Elective	4 hours

SENIOR YEAR

Quantitative Analysis	3 hours	History	2 hours
Christian Evidences	2 hours	Christian Ethics	2 hours
History	2 hours	Elective	11 hours
Elective	8 hours		

Course for Social and Religious Workers

Students preparing for religious work should consult the head of that department before each registration, and students preparing for social work should consult the head of the department of Economics and Sociology; it is advisable in either case to consult the heads of both departments.

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
Biology	5 hours	Chemistry 1a	6 hours
Foreign Language	5 hours	Foreign Language	5 hours
Life of Christ	3 hours	Apostolic Age	3 hours

SOPHOMORE YEAR

History of English Literature	3 hours	Survey of American Literature	3 hours
General Psychology	3 hours	Child Psychology	
Social Problems	3 hours	or	
Hebrew History	2 hours	Social Psychology	3 hours
Elective	4 hours	Rural Problems	
		or	
		City Problems	3 hours
		Hebrew History	2 hours
		Electives	4 hours

JUNIOR YEAR

Principles of Economics	5 hours	Principles of Sociology	5 hours
Psychology of Religion	2 hours	Survey of Religious Education	2 hours
Principles of Education		Industrial Problems	2 hours
or		Teaching of the Prophets	3 hours
Educational Psychology	3 hours	Elective	3 hours
Teachings of Jesus	3 hours		
Elective	2 hours		

SENIOR YEAR

Christian Evidences	2 hours	Christian Ethics	2 hours
History of Religion	2 hours	History of Christianity	2 hours
History of the Bible	2 hours	Problems of Religious	
Courses in Sociology	2 to 4 hours	Education	2 hours
Elective	5 to 7 hours	Courses in Sociology	2 to 4 hours
		Elective	5 to 7 hours

Course in Physical Education

FRESHMAN YEAR

First Semester		Second Semester	
Physical Education	1 hour	Physical Education	1 hour
Rhetoric	3 hours	Rhetoric	2 hours
Biology	5 hours	Chemistry 1a	6 hours
Elective	6 hours	Elective	6 hours

SOPHOMORE YEAR

Physical Education	2 hours	Physical Education	2 hours
Chemistry 1b	6 hours	Physiological Chemistry	4 hours
Psychology	3 hours	Elective	9 hours
Elective	5 hours		

JUNIOR YEAR

Physical Education	4 to 6 hours	Physical Education	4 to 6 hours
Bacteriology	2 hours	Physiology	3 hours
Anatomy	2 hours	Elective	6 to 8 hours
Elective	6 to 8 hours		

SENIOR YEAR

Physical Education	2 to 4 hours	Physical Education	2 to 4 hours
Christian Evidences	2 hours	Christian Ethics	2 hours
Elective	9 to 11 hours	Elective	9 to 11 hours

Course leading to Sanitary Engineering

FRESHMAN YEAR

First Semester		Second Semester	
Rhetoric 1	3 hours	Rhetoric 2	2 hours
College Algebra	3 hours	Analytical Geometry	5 hours
Trigonometry	2 hours	Chemistry 1a	6 hours
Biology	5 hours	History 2	3 hours
History 1	2 hours		

SOPHOMORE YEAR

Differential Calculus	3 hours	Surveying	3 hours
Surveying	3 hours	Integral Calculus	3 hours
Chemistry 1b	6 hours	Organic Chemistry	5 hours
Physics 1	5 hours	Physics 2	5 hours

JUNIOR YEAR

Psychology	3 hours	Physiology	3 hours
Botany 1	3 hours	Bacteriology	2 hours
Histology	2 hours	Botany 2	3 hours
Elective	8 hours	Histology	2 hours
		Elective	6 hours

SENIOR YEAR

Christian Evidences	2 hours	Christian Ethics	2 hours
Zoology	3 hours	Entomology	3 hours
Electives	11 hours	Electives	10 hours

Course for Teachers
For a 60-Hour Certificate

FRESHMAN YEAR

First Semester		Second Semester	
English	3 hours	English	2 hours
Biology	5 hours	Physiology	3 hours
European History	2 hours	European History	2 hours
Electives	5 hours	Electives	8 hours

SOPHOMORE YEAR

General Psychology	3 hours	Elementary Methods	3 hours
History of English Lit.	2 hours	School Management	3 hours
Electives	10 hours	Electives	10 hours

For a 120-Hour Certificate

FRESHMAN YEAR

Same as for a 60-hour Certificate, both semesters

SOPHOMORE YEAR

General Psychology	3 hours	Principles of Education	3 hours
History of English Lit.	2 hours	History of American Literature	3 hours
Major and Electives	10 hours	Major and Electives	10 hours

JUNIOR YEAR

History of Education	3 hours	Educational Psychology	3 hours
Sociology	2 hours	Applied Sociology	2 hours
Laboratory Science	5 hours	Major and Electives	10 hours
Major and Electives	5 hours		

SENIOR YEAR

Christian Evidences	2 hours	Christian Ethics	2 hours
School Administration	3 hours	Special Methods	3 hours
Major and Electives	10 hours	Major and Electives	10 hours

COURSES OF INSTRUCTION

BIBLE AND RELIGIOUS EDUCATION

Bible

1. **The Life of Christ.** The historical background, sources, events, and problems of the life of Christ. First semester, three hours.

2. **The Apostolic Age.** Sources, chronology, events, beliefs, customs and chief actors. Prerequisite, Course 1. Second semester, three hours.

3. **The History and Interpretation of the Bible.** The sources of the Old and New Testaments, the Canon, the evolution of the English Bible, the principles and methods of Biblical interpretation. First semester, two hours.

5, 6. **Hebrew History.** Sources, rise, progress, institutions, and beliefs of the Hebrew people. First and second semesters, two hours.

7. **The Teachings of Jesus.** The Teacher, His authority, materials, method; the interpretation and application of His chief teachings, individual and social. Prerequisite, Course 1. First semester, three hours.

8. **The Teachings of the Prophets.** The development of prophecy among the Hebrews, the analysis, classification and messages of the prophetic writers. Prerequisite, Courses 5, 6. Second semester, three hours. Omitted in 1922-1923.

9. **Christian Evidences.** The fundamentals of the Christian faith. Open to Juniors and Seniors. Required for graduation. First semester, two hours.

10. **Christian Ethics.** A study of the moral principles of Christianity, and an interpretation of them as applied to the life of the individual in all his relationships. Open to Juniors and Seniors. Required for graduation. Second semester, two hours.

Related courses will be found in other departments: New Testament Greek in the Greek department, the English Bible as Literature and the Bible in English Literature in the English department.

Religious Education

The courses in religious education are designed to give a working knowledge of the nature and laws of the spiritual life, the need and principles of spiritual education and the organization of the church for religious instruction.

General psychology and child psychology are prerequisites for all courses in religious education.

11. **Psychology of Religion.** The nature and laws of the spiritual life and their relation to the materials and methods of religious education. First semester, two hours.

12. **A Survey of Religious Education.** The principles, aims, materials and various agencies of religious education. Prerequisite, Course 11. Second semester, two hours.

14. **Problems in the Field of Religious Education.** Religious edu-

cation in the home, in the church, in vacation schools and week-day schools of religion. Personal and social religious problems. Programs, projects and direction of religious education. Prerequisites, Courses 11 and 12. Second semester, two hours.

The History of Christianity

15. The History of Religion. The origin, development and distinctive teachings of the great religions of the world. First semester, two hours. Omitted in 1922-1923.

16. The History of the Christian Church. Christianity before 1500 A. D. The Reformation and the rise of modern denominations. History of the Baptists. Current religious movements in America. Second semester, two hours. Omitted in 1922-1923.

18. The History of Christian Missions. The missionary message of the Bible. A survey of Christian missions to the time of Carey. Modern missions in India, China and Japan with particular reference to the work of Baptists. Education and organization for missionary extension. Second semester, two hours.

Courses contributing to this course are Medieval Civilization and History of Modern Europe, given in the History department.

BIOLOGICAL SCIENCES

1. General Biology. The more simple laws of life, and the relation between plants and animals are presented under this topic. Laboratory work on typical representatives of the lower orders of plants and animals form a large part of the course. This is designed as introductory to the advanced courses in Botany and Zoology, as well as for those who desire a general knowledge of the laws of life. Open to all. First semester, five hours.

2. Physiology, Human. A course in general physiology. Two lectures, recitations, or class demonstrations and one laboratory period each week. Open to all. Second semester, three hours.

3. Zoology, Invertebrates. A study of the structure, life history, and development of certain types representing the main groups of this division. Occasional field excursions will be included. Two lectures or recitations and one laboratory period each week. Open to all. First semester, three hours.

4. Zoology, Vertebrates. Comparative anatomy, physiology, and development of vertebrate types. Field excursions included. Two lectures and one laboratory period each week. Prerequisite, Course 3. Second semester, three hours.

5. Botany, General. A study of the nature and development of plants, with field observations upon the lower types found in this locality. Two lectures and recitations and one laboratory period each week. Open to all. First semester, three hours.

6. Botany, Seed Plants. Morphology, ecology, and classification. Students in this course may elect to arrange a herbarium as a part of the work. Prerequisite, Course 1 or equivalent. Second semester, three hours.

7. Histology, Plant and Animal. A course in the various phases of histological technique; hardening, cutting, staining, and mounting. Preparation and mounting of twenty sections of typical tissues. Lec-

tures and laboratory work. Prerequisite, Course 1 or equivalent. First semester, two hours.

8. **Histology.** Continuation of Course 7. Second semester, two hours.

9. **Cytology.** A course dealing with the structure and functions of the cell, with methods of work; special reference to the developmental phenomena of cell life, and the various problems centering upon those phenomena that have the mechanism of hereditary transmission. Prerequisites, Courses 3, 4, 5, 6, 7, and 8. First semester, three hours.

10. **Entomology.** Lectures, laboratory and field work on insects; a study intended to set forth the Biologic and Economic significance of this very important group. Prerequisite, Course 3. Second semester, three hours.

11. **Bacteriology.** A study of typical forms of pathogenic and non-pathogenic bacteria. Culture methods, inoculation, sterilization, prevention of diseases, soil bacteria, etc. Prerequisite, Course 1 or 5. First semester, two hours.

12. **The Teaching of Biology.** This course deals with the laboratory and field side only and is intended to supplement the course in Special Methods in Education. Open to Seniors who are majoring in Biology. Second semester, three hours.

13. **Introductory Human Anatomy.** This course is planned particularly for the benefit of students majoring in Physical Education. It concerns the more important structures and relations of the body. Dissections of the human body are not required, but dissected parts, models and charts will be used frequently. Open to all students who have had General Biology or its equivalent. First semester, two hours.

14. **Agriculture, General Principles and Practices.** Courses suggested as preliminary, Chemistry 1a, and Biology 3, 4, 5, 6, 10, and 11. Second semester, three hours.

15. **Ornithology.** A study of birds with reference to their habits, individual characters, distribution and economic importance. Lectures and field trips. Prerequisite, Course 4. First semester, three hours.

For a major in Biology 26 hours are required including courses 3, 4, 5, 6, 7, and 8. It is desirable that students who major in Biology take Inorganic and Organic Chemistry and a modern language.

CHEMISTRY

For students desiring an introduction to the scientific method and the principles of general chemistry, Courses 1a and 1b are offered. Students majoring in biology, home economics or physical education will find it to their advantage to take course 4.

Students are advised not to major in chemistry unless (1) they intend to use their knowledge of chemistry after leaving school as teachers, graduate students, or industrial chemists; and unless (2) they are prepared to do hard work. For a major in chemistry Courses 1a, 1b, 2, 3, and 5 are required. Students majoring or intending to major in chemistry would do well to consult the head of the department frequently and to study with care the suggested course for chemists printed elsewhere in this catalog. For a minor in chemistry, Courses 2 and either 3 or 5 are required.

1a. General Inorganic Chemistry. Introduction to the nomenclature and fundamental principles of inorganic chemistry. Emphasis laid in particular on the atomic and ionic theories and an elementary knowledge of the theory of solutions together with practice in the observation of chemical phenomena. Students receiving credit for Chemistry 1a are advised to continue with Chemistry 1b, as these two courses comprise the so-called "General Chemistry" course offered elsewhere. Prerequisite, high school geometry. Three lectures, one recitation, and two laboratory periods per week. Second semester, six hours' credit.

1b. General Inorganic Chemistry and Qualitative Analysis. Lectures are continuation of Course 1a. Laboratory work on the principles and practice of qualitative analysis according to the modern theory of solutions. Prerequisite, Course 1a. First semester, six hours.

2. Quantitative Analysis. Lectures and laboratory practice in the principles and methods of gravimetric and volumetric analysis. Prerequisite, Course 1b.

a. Gravimetric analysis, first semester, three to five hours.

b. Volumetric analysis, second semester, three to five hours.

3. Organic Chemistry. Lectures, recitations, and laboratory methods on the chemistry of the carbon compounds. The first semester of work in organic chemistry includes the chemistry of the aliphatics, the second, the chemistry of the aromatic compounds. Prerequisite, Course 1b. Second and first semesters, five hours each semester.

4. Physiological Chemistry. An elementary course in human physiological chemistry designed especially for students of home economics, biology and physical education. Not open to chemistry majors. Three lectures and recitations together with one laboratory period per week. Prerequisite, Course 1b. First semester, four hours' credit.

5. Physical Chemistry. An introduction to modern theoretical chemistry, i. e., chemical statics and dynamics including electrochemistry. Three lectures and one laboratory period per week. Prerequisite, Course 1b; prerequisite or parallel, Physics 2 and Mathematics 8. First and second semesters, four hours each semester.

6. Senior Thesis. A course open only to Seniors majoring in chemistry. Elementary problems will be assigned involving a review of the literature and requiring laboratory work. The purpose is to give the student insight into methods of chemical research. Prerequisite, consent of the instructor. Either or both semesters, three to five hours.

ECONOMICS AND SOCIOLOGY

Economics

1. Principles of Economics. The general course in economic theory; prerequisite to most other courses in economics; advised but not required as preparation for Principles of Sociology (Sociology 6). Students majoring in the department and students preparing for business are advised to take this course in their Sophomore year. Not open to Freshmen. First semester, five hours.

2. Elements of Economics. A more elementary course than Economics 1, offered as a substitute for it, for those who for any reason think they will be unable to take Economics 1. This course may be offered as a substitute for Economics 1 as prerequisite for advanced courses in Economics, but Economics 1 is to be preferred in all cases. Open to all. Second semester, three hours.

3. Transportation. The history, organization, and problems of transportation, especially of railway transportation in the United States. Textbook, extensive outside reading, lectures, class discussion. Prerequisite, Economics 1 or equivalent. Omitted in 1922-1923. First semester, two hours.

4. Marketing. The description and analysis of modern business institutions especially in their function of distribution and exchange of goods. Textbook, readings, exercises. Prerequisite, Economics 1 or equivalent. Second semester, two hours.

5. Money and Banking. Brief history of banking and the currency in the United States and analysis of recent and current problems. Intensive study of the textbook, recitations, discussions. Prerequisite, Economics 1 or equivalent. First semester, two hours. Omitted in 1922-1923.

6. Current Economic Problems. A concrete investigation and analysis of such economic and financial topics as may be of current interest when the course is given. Lectures, extensive reading, exercises, discussions. Prerequisite, Economics 1 or equivalent. Second semester, two hours.

8. Industrial Problems. Recent and current problems of industrial relationship: wage systems, welfare work, strikes, industrial arbitration, collective bargaining, scientific management as affecting industrial relations, co-operative management. Textbook, lectures, extensive reading, discussions. Not open to Freshmen; open to others upon consultation with the instructor. Economics 1 is advised as preparation, but not required. Second semester, two hours.

9. Principles of Insurance. A general study of the theory and problems of life, health, accident, fire, and other forms of insurance. Textbook, recitations, discussions. Not open to Freshmen. First semester, two hours.

10. Public Finance and Taxation. Public finance in the United States. Problems of public finance, systems and problems of taxation. Textbook, intensive reading, lectures, recitations, discussions. Prerequisite, Economics 1 or equivalent. Second semester, two hours. Omitted in 1922-1923.

12. Business Organization. The organization of business enterprises, especially of industrial or manufacturing plants. Textbook, required collateral reading, exercises, class discussions. This course and Economics 4 are complementary, serving together as a descriptive and analytical study of the structure and functioning of modern business enterprises. The courses will be given in general on alternate years. Prerequisite, Economics 1 or equivalent. Second semester, two hours. Omitted in 1922-1923.

13. Principles of Accounting. a. This course is open to students who have not had Bookkeeping. The work will take up an analysis and classification of transactions of Retail and Wholesale business

according to the fundamental principles of double entry bookkeeping. Supplementary exercises will acquaint the students with the Books of Original Entry, the Ledger, the Trial Balance, Trading, Profit and Loss Statements, Resource and Liability Statements and the Journal Entry, "To Close." The statements are given in both report and technical form. First semester, three hours.

14. Principles of Accounting. b. This course is open to students who have had Accounting a, or can pass a satisfactory examination over the same content from High School Bookkeeping.

The course will include the theory of the Columnar Journal and the Cash Book, Controlling Accounts, Depreciation and Reserve Accounts, advanced Financial Statements, covering in exercises the detail of Corporation records. The theory of Cost Accounting will also be taken up. There will be a text in addition to supplementary problems. Second semester, three hours.

15. Business Law. This course takes up the legal significance of business situations. The view point is that of avoiding controversy rather than a professional approach. The study will cover Contracts in general and in special form as applied to Agency, Partnership, Personal Property, Real Property, Corporation and Negotiable Instruments. First semester, three hours.

16. Selling. This course will briefly survey the three means by which the business man communicates with the outside world. First: Correspondence, which will cover the principles of effective letter writing both as to form and content. Second: Salesmanship, which is a study of the essentials of personal efficiency and the psychology and mechanics of making a sale. Third: Advertising, which is a study of publicity in its various forms, and the essentials of an Advertising Campaign. Second semester, three hours.

Courses in Economic History of Western Europe, Economic History of the United States, or History of Civilization may be arranged if there is demand.

Secretarial courses of Shorthand, Typewriting, Commercial Law, Business Communication and Office Practice are indicated in the Academy courses.

Sociology

1. Social Problems. A study of a considerable number of the concrete problems of modern society, especially of the abnormal features of modern social life and their causes, and of proposed remedial measures. Textbook, extensive reading, lectures, frequent quizzes, reports. Open to all. First semester, three hours.

2. Rural Problems. A descriptive and analytical study of the conditions, tendencies, problems, and constructive agencies of rural life, and of the country village. Textbook, extensive reading, lectures, recitations, discussions, reports. Prerequisite, Sociology 1 or Sophomore standing. Either semester, two or three hours.

3. General Anthropology. Theoretical and descriptive study of the descent of man, man as an animal, social origins, early institutions. Textbook, extensive reading, lectures, discussions. Prerequisite, General Biology or equivalent; open on consultation with the instructor only. First semester, three hours. Omitted in 1922-1923.

4. **City Problems.** Theoretical and descriptive study of the functions and problems of urban communities, political and non-political. Textbook, extensive reading, lectures, recitations and discussions, reports. Prerequisite, Sociology 1 or Sophomore standing. Either semester, two or three hours. Omitted in 1922-1923.

5. **Socialism.** A comparative and historical study of socialistic, communistic, and anarchistic theories. Textbook, intensive study of assigned readings, lectures, recitations. Not open to Freshmen; Economics 1 is advised as a preparation. Either semester, three hours.

6. **Principles of Sociology.** The general course in social theory. Man and the environment; the psychology, evolution, organization, and institutions of society. Textbook, intensive study of assigned readings, lectures, recitations. Not open to Freshmen; open to Sophomores by permission of the instructor in individual cases. Second semester, five hours.

7. **Statistics.** The elements of statistical method, especially as applied to social and economic studies. Textbook, exercises, recitations. A reasonable command of algebra is necessary. Open only upon consultation with the instructor. Either semester, two or three hours. Omitted in 1922-1923.

Social Psychology, given by the department of Psychology and Education, may be counted on a major in Economics and Sociology, if not counted for minor or group requirements.

EDUCATION

Courses in this department are planned to meet the requirements of the State Board of Education for State Teachers' Certificates of three types, as follows:

(1) Three-year certificate renewable for life, authorizing holder to teach in any elementary or high school in Kansas. Requirement, graduation from college with 18 semester hours in professional branches, including three hours each in General Psychology, Educational Psychology or Educational Theory, and School Administration, and nine additional hours in Education.

(2). Three-year certificate renewable for three-year periods, authorizing holder to teach in any elementary school, junior high school, or one-year or two-year high school in Kansas. Requirements, two years (60 semester hours) college work, including three hours each in General Psychology, Methods of Teaching, and School Management, or in equivalent branches.

(3). Special certificates valid for one year in special branches prescribed by State Board. Requirement, two years (60 semester hours) college work, including 28 hours in the special branch in which certificate is desired (such as Commercial branches, Music, Physical Training, etc.) and three hours each in General Psychology, Methods, and School Management.

1. **History of Education.** A course confined to the study of the educational development of America. Open to Sophomores and Juniors. First semester, three hours.

2. **Elementary Methods.** A course presenting the elements of both general and special methods as needed for teaching in elemen-

tary schools and junior high schools. Prerequisite, Psychology 1. Open only to Sophomores who are preparing to teach the following September. Required for the 60-hour state certificate. Second semester, three hours.

3. Principles of Education. A study of aims, values and principles. Prerequisite, Psychology 1. Accepted for credit toward the 120-hour state certificate. Alternates with Course 5. Open to Juniors and Seniors. First semester, three hours. Omitted in 1922-1923.

4. School Management. The course covers the problems of organization and control as they pertain to the elementary school. Prerequisite, Psychology 1. Accepted for credit toward the 60-hour state certificate. Only open to Sophomores expecting to teach the following September. Second semester, three hours.

5. Educational Psychology. A presentation of the psychology of learning as involved in the school progress of children in the various elementary and secondary subjects. Accepted for credit toward the 120-hour state certificate. Prerequisite, Psychology 1. Alternates with Course 3. Open to Juniors and Seniors. First semester, three hours.

6. High School Administration. This course presents the modern developments in the secondary field from the standpoint of the high school principal, the head of the department, and the classroom teacher. Open to Juniors and Seniors. Second semester, two hours.

7. School Administration. A course in administration and supervision of city and county school systems. Accepted for credit on the 120-hour state certificate. Open to Juniors and Seniors. First semester, three hours.

Courses recommended for a major in Group 9 should include 1, 3, 5, 6, and 7 in Education, 1, 2, and 4 in Psychology and 8 and 9 in Philosophy.

Credit (not to exceed three hours) in any of the following courses may be counted toward the 18 hours' certificate requirement in professional branches, if taken during the Junior or Senior year; provided the student has had sufficient preparation in the subject concerned.

Biology 12.—Biology Teachers' Course.

English 17.—The Teaching of English.

Latin 8.—Teachers' Course in Latin.

Mathematics 12.—The Teaching of Mathematics.

History 30.—The Teaching of History and Government.

ENGINEERING

1. Mechanical Drawing. An elementary course. Prerequisite, Plane and Solid Geometry. First semester, six hours per week, two hours' credit.

2. Mechanical Drawing. Prerequisite, Course 1. Second semester, six hours per week, two hours' credit.

3. Machine Drawing. Prerequisite, Courses 1 and 2. First semester, three hours' credit.

4. **Descriptive Geometry.** Prerequisite, Course 1. Second semester, three hours' credit.

5. **Surveying 1.** Prerequisite, Trigonometry. A study of surveying instruments, adjustments and uses. Recitation, two hours per week. Ten half-days' field work. First semester, three hours' credit. Omitted in 1922-1923.

6. **Surveying 2.** Advanced course covering topographical surveying, earth work, etc. Prerequisite, Surveying 1. Recitation two hours per week. Ten half-days' field work. Second semester, three hours' credit. Omitted in 1922-1923.

7. **Mechanics.** A study of the Laws of Statics and Dynamics. Prerequisite, Mathematics 10. First semester, five hours' credit.

8. **Graphical Statics.** Second semester, two hours' credit.

For Electrical courses see Physics 3, 5, 6, 8, and 9.

ENGLISH

Rhetoric, Journalism, Literature, Expression

Rhetoric and Journalism

1. A course in the principles of writing. Required of all Freshmen. First semester, three hours.

2. A continuation of Course 1. Required of all Freshmen. Second semester, two hours.

3. **Advanced.** Prerequisites, Courses 1 and 2, or an equivalent. Note what is said regarding a major. First semester, two hours. Offered in alternate years. Given in 1922-1923.

4. **Advanced.** Prerequisites, Courses 1 and 2. See note regarding the major. Second semester, two hours. Omitted in 1922-1923.

5. **Extempore Speaking, Debating, Parliamentary Law.** Limited to 25. Open to Freshmen. First semester, three hours.

6. **Public Speaking.** Formal Public Address, Oration. Prerequisite, Course 5 or an equivalent. Second semester, two hours.

8. **Argumentation.** Prerequisite, Course 5 or an equivalent. Open to upper-classmen and to qualified Freshmen. Second semester, three hours.

9. **Journalism.** An introductory course with practice in the ordinary types of news writing. Prerequisite, Course 1 or an equivalent. First semester, two hours. Omitted in 1922-1923.

10. **Journalism.** Prerequisite, Course 1, or an equivalent. Second semester, two hours. Given in 1922-1923.

Students who offer fourth year high school work for credit in Rhetoric 1 and 2, may be required to elect at least two hours in advanced rhetoric or in journalism.

A certain amount of credit, determined by the head of the department, may be granted for work done on the college weekly.

Work done in contests in oratory or in debate is evaluated for credit in connection with Courses 5, 6, and 8.

Literature

1. **History of English Literature.** Required of all students majoring in English literature, and prerequisite to all other courses in literature. First semester, three hours.

2. **Survey of American Literature.** This course should follow Course 1. Second semester, three hours.

3. **Elizabethan Age.** A study of the writers contemporaneous with Shakespeare. First semester, two hours.

4. **Puritan-Cavalier Period.** Second semester, two hours. Omitted in 1922-1923.

5. **Shakespeare—Comedies.** First semester, three hours.

6. **Shakespeare—Tragedies.** Second semester, three hours.

7. **Classical Period.** First semester, two hours. Omitted in 1922-1923.

8. **Romantic Period.** Second semester, two hours.

9. **Nineteenth Century Poetry.** Tennyson and Browning. First semester, three hours.

10. **Contemporary Poetry.** 1895 to the present. Second semester, two hours.

11. **The English Novel.** Richardson to Scott. First semester, three hours.

12. **The English Novel.** Dickens to De Morgan. Second semester, three hours.

13. **The Essayists.** First semester, two hours.

14. **Contemporary Drama.** 1895 to the present. Second semester, two hours.

15. **The English Bible as Literature.** First semester, three hours.

16. **The Bible in English Literature.** Second semester, two hours. Omitted in 1922-1923.

17. **The Teaching of English.** Second semester, two hours.

Special attention is called to Course 1, which should be taken in the Freshman year. Course 2 should follow in the same year. Students should consult the head of the department in regard to courses and hours, especially with reference to the sequence of courses for a major in English.

Expression

1. **The Fundamentals of Expression.** Open to Freshmen. First semester, two hours.

2. **A continuation of Course 1.** Open to qualified Freshmen. Second semester, two hours.

3. **Advanced.** Prerequisite, Courses 1 or 2, or an equivalent. First semester, two hours. Given if as many as seven enroll.

4. **Dramatics, Art and Technique of Presentation.** Prerequisite, Courses 1 and 2, or an equivalent. Second semester, two hours. Given if as many as ten enroll.

Students seeking advanced credit in English should read the paragraph under that heading on page 20.

For a major in English the student must have twenty-one hours in advance of Rhetoric 1 and 2. Courses 1 and 2 in Literature and 1 and 2 in Expression must be included in the major. No student will be recommended for a position as teacher of English in a high school of the first rank unless he has had at least four hours of rhetoric in advance of the Freshman requirement and has had Course 17, in addition to the other required courses.

GEOLOGY

1. **Geology.** A course in general Geology consisting of lectures, recitations and readings, supplemented by excursions. Chemistry 1a is prerequisite to this course. First semester, three hours.

2. **Geology.** A continuance of Course 1. Second semester, three hours.

GERMAN

1, 2. **Elementary German.** The elements of German grammar, chiefly with regard to the acquisition of a reading knowledge of the language. Readings of graded difficulty. First and second semesters, five hours.

3. **Intermediate German.** Review of grammar. Development of ability to use simple German in conversation and composition. Reading of texts of intermediate difficulty. First semester, five hours.

4. **Intermediate German.** Introduction to difficult prose. Brief survey of the History of German literature. Second semester, five hours.

GREEK

1. **Elementary Greek.** The common forms and constructions are first learned. Special attention is then given to "Everyday Greek," the Greek found frequently in English. A course of special value to (1) prospective students of theology and religion, (2) prospective teachers of Latin, (3) those who wish to read philosophical and scientific writings with greater ease and accuracy. This course may be taken without subsequent study of Greek or may be followed by Course 2. First semester, five hours.

* 2. **Greek Selections.** Designed to follow Course 1. For those who wish to continue Greek. A more extended study of forms and constructions than is given in Course 1. Extracts from the gospels and from classic authors. Second semester, five hours.

3. **Plato, Apology and Crito.** As much Greek is read as time allows. The remainder of these works is carefully read in translation. This course is an introduction to the work of Socrates and to Greek philosophy. First semester, two hours.

5. **Greek New Testament.** A study of the language and ideas of early Christianity. This course alternates with Course 3. First semester, two hours.

11. **Greek Civilization.** A survey of the life and thought of the ancient Greeks and their contribution to modern civilization. This

course requires no knowledge of the Greek language. This course is identical with History 1A. First semester, two hours.

HISTORY AND POLITICAL SCIENCE

Students who select history and political science as a major group should select either economics and sociology, English language and literature, or philosophy as a minor group. A major in history and political science must include courses 3, 4, 5, 6, 21, and 22. Students majoring in the group should also take Principles of Economics.

1A. Greek Civilization. Introductory course, intended for Freshmen and Sophomores. Identical with Greek 11. First semester, two hours.

2B. Roman Civilization. Identical with Latin 12. Second semester, two hours.

1. History of England to 1603. A survey of English history, with emphasis upon constitutional development, intended primarily for Freshmen. First semester, two hours.

2. History of England, 1603-1923. Includes the history of the growth of the British Empire. Prerequisite, Course 1. Second semester, three hours.

3, 4. History of Modern Europe. First semester, from about 1500 A. D. to the Congress of Vienna; second semester, from the Congress of Vienna to the present time. Intended primarily for Sophomores. First and second semesters, four hours.

5, 6. American History. History of the United States from about 1763 to the present time. Social and industrial conditions and development are studied as well as political and economic conditions. Prerequisite, one year of college history, or Federal Government. First and second semesters, three hours. Omitted in 1922-1923.

7. Medieval Civilization. A survey of European history during the Middle Ages, with emphasis upon the Church, cultural progress, and the life of the people. First semester, two hours.

8. Latin America. A general survey of the history of Latin America from 1492 to the present time and a more intensive study of present day conditions and problems, racial, political, and economic. Not open to Freshmen and Sophomores. Second semester, two hours. Omitted in 1922-1923.

10. Recent American History. Political and economic development of the United States since 1877. Prerequisite, Course 4 or 21. Not open to those who have had Course 6. Second semester, two hours.

21. Federal Government in the United States. The historical foundations, powers and limitations, functions, general organization, and practical working of the Federal government. Intended primarily for Freshmen and Sophomores. First semester, three hours.

22. State and Local Government in the United States. The place of the states in the nation, the electorate, popular control in state governments, organization, powers, functions, and practical working of state, county, and municipal governments. Intended primarily for Freshmen and Sophomores. Second semester, three hours.

23. Introduction to Political Science. A general survey of the field of political science. Origin, evolution, and nature of the state;

forms, organization, and functions of governments. Not open to Freshmen. First semester, two hours. Omitted in 1922-23.

25. European Governments. A comparative study of the governments of the leading European states. Prerequisites, Course 4, 21, or 23. First semester, three hours.

26. Municipal Government. A consideration of the political problems of municipal government in America. Prerequisite, Courses 21 and 22. Second semester, two hours.

30. The Teaching of History and Government. Intended for those who expect to teach history and government in the high school. Second semester, one hour.

HOME ECONOMICS

1. Foods 1. The principles of cookery, with emphasis upon the application of heat to foods and upon the economic uses of various foods. Prerequisite or parallel, General Chemistry. One entrance unit in Physics is required. One hour recitation and four hours laboratory. First semester, three credits.

2. Elementary Dietetics. The nutritive value and functions of food, and the nutritive requirements of the individual and the family. Prerequisites, Foods 1 and General Chemistry. Two hours recitation and four hours laboratory. Second semester, four credits.

3. Clothing 1. The economic problems of clothing, selection of materials, textile study. Straight line drafting, practice in hand and machine sewing and in cutting and making of garments. Prerequisite, high school sewing. Two hours recitation and six hours laboratory. First semester, four credits.

4. Foods 2. Comparative studies of food materials. Experimental cookery with emphasis upon flour mixtures and preservation of foods. Prerequisites, Foods 1, Organic Chemistry and Bacteriology. Prerequisite or parallel, Human Physiology. Two hours recitation and six hours laboratory. Second semester, five credits.

5. Home Cookery. The purpose of this course is to present in a non-technical way the elementary problems of food and nutrition. Designed for the general student who does not care to major in Home Economics. Recitation one hour and laboratory four hours. First semester, three credits.

6. Home Architecture and Sanitation. A study of types of domestic architecture, house planning and sanitation, involving the choice of building sites, materials, ventilation, heating and plumbing, principles of furnishing and care of the house. Recitations and lectures. Second semester, two credits.

7. Textiles. A study of the production and manufacture of textiles from the standpoint of the consumer; the properties and uses of the different textile fibers and fabrics, tests for adulteration; principles of cleaning fabrics. Prerequisite, Chemistry 1a. One hour recitation and four hours laboratory. First semester, three credits.

8. Household Management. A study of the organization and administration of the household, the home as a social and educational institution, budget and household accounting. Recitations and lectures. Reference work is required. Prerequisites, Foods 1 and Elementary Dietetics. Second semester, three credits.

10. **Clothing** 2. Tailoring and dressmaking. Prerequisite, Clothing 1. Second semester, four credits.

Courses 3, 5, 6 are of a general nature and are suggested for students who do not care to major in Home Economics, but who wish some training in subjects pertaining to the home. For a major see suggested course in Home Economics.

Courses in high school Home Economics are offered in the Academy.

LATIN

1. **Cicero, De Senectute or De Amicitia.** Prose composition. Freshman and Sophomore Latin. This course alternates with Course 3. First semester, three hours.

2. **Horace, Odes and Epodes.** Attention is given to the literary influence of the Augustan Age. Freshman and Sophomore Latin. This course alternates with Course 4. Second semester, three hours.

3. **Livy, Selections. Roman Institutions.** Freshman and Sophomore Latin. First semester, three hours.

4. **Plautus and Terence.** The linguistic and literary importance of Roman Comedy. Freshman and Sophomore Latin. Second semester, three hours.

6. **Tacitus, Agricola or Germania; Pliny, Selected Letters.** Social and political conditions under the early empire. Second semester, two hours. This course alternates with Course 8.

8. **Teachers' Latin.** Designed for students intending to teach Latin. Second semester, two hours.

12. **Roman Civilization.** Studies in Roman life and institutions. Rome's place in history. This course is intended to follow Greek 11. No knowledge of the Latin language is required. Second semester, two hours.

MATHEMATICS

Students specializing in Engineering and Physics should elect Mathematics through Course 10.

Students are advised to follow the order in the catalog. Course 1 does not count for a major or for group hours, but counts as a college elective only. Course 3b receives only three hours' credit for a major or a group, the other two hours being counted as a college elective. All other courses are major courses, including Engineering Courses 4, 5, 6, 7. Twelve hours above Integral Calculus are required for a major in this department. Integral Calculus is required for a minor.

1. **Solid Geometry.** Prerequisite, first year High School Algebra and first year Plane Geometry. First or second semester, two hours.

3a. **College Algebra.** Prerequisite, one and one-half years of High School Algebra and one year of Plane Geometry. First semester, three hours.

3b. **College Algebra.** Prerequisite, one year of High School Algebra and one year of Plane Geometry. First semester, five hours.

5. **Plane Trigonometry.** To be given with either Course 3a or Course 3b.

6. **Plane Analytic Geometry.** Prerequisite, College Algebra and Trigonometry. Second semester, five hours.

7. **Differential Calculus.** Prerequisite, Course 6. First semester, three hours.

8. **Integral Calculus.** Prerequisite, Course 7. Second semester, three hours.

9. **Advanced Calculus.** First semester, three hours.

10. **Differential Equations.** Prerequisite, Course 9. Second semester, three hours.

11. **University Algebra.** First semester, two hours.

12. **Methods.** The teaching of mathematics. Second semester, three hours.

13. **Solid Analytic Geometry.** First semester, two hours. Omitted in 1922-1923.

14. **Theory of Equations.** Second semester, three hours. Omitted in 1922-1923.

15. **Infinite Series.** First semester, two hours. Omitted in 1922-1923.

16. **Modern Geometry.** Second semester, three hours. Omitted in 1922-1923.

17. **Descriptive Astronomy.** Prerequisite, Trigonometry. First semester, two hours.

18. **Descriptive Astronomy.** Second semester, two hours.

For additional courses in Mathematics, see Engineering, 4, 5, 6, 7. Courses 9 to 18 inclusive can be taken in any order except that Differential Equations must follow Advanced Calculus.

MUSIC

A certain number of courses in the Department of Music will be counted toward a Bachelor's degree in the case of students of collegiate rank. Not more than sixteen hours of credit in all, however, can be thus earned. For these courses see The Conservatory of Music.

PHYSICAL EDUCATION

Two years of physical training, carrying four semester hours' credit are required of all students, to be taken during the Freshman and Sophomore years. In case of unavoidable conflict of schedule or of physical unfitness the work may be postponed until a later date, but in no case may a student be excused from this minimum requirement in physical training except by vote of the faculty. A physical examination will be given every student before entering classes to determine which work will be most beneficial to the individual.

In several of the following courses three class hours are required for one semester hour's credit. Such courses are indicated, as far as possible.

Courses for Men

Costumes, consisting of sleeveless white jerseys, white trunks and white tennis or gymnasium shoes are used by all men for floor work.

1. **Gymnastics.** General floor work involving systematic and progressive training in marching tactics and calisthenics with swimming, volley ball and other indoor games. Required of Freshmen. First semester, three hours. One hour's credit.

2. **Gymnastics.** Calisthenics, light and heavy apparatus work, basket ball and outdoor sports. Open to Freshmen. Second semester, three hours. One hour's credit.

3. **Advanced Gymnastics.** This course continues the training begun in Courses 1 and 2. It progresses into the more intricate exercises in calisthenics and work with apparatus interspersed with indoor games. Open to Sophomores. First semester, three hours. One hour's credit.

4. **Advanced Gymnastics.** Track, tennis and other outdoor sports may be substituted for indoor work at the discretion of the instructor. Open to Sophomores. Second semester, three hours. One hour's credit.

6. **Teaching of Physical Education and Coaching.** A course designed to train students who expect to become physical directors or coaches. Instruction and practice in organizing, training and handling athletic teams and gymnasium classes, making physical examinations and treating injuries. Second semester. Two hours' credit.

9. **Indian Clubs and Wands.** A course open to both men and women. First semester. One hour's credit.

12. **Playground Supervision.** Aims and purposes of playground activities. Organization, equipment and management of a playground. A study of the nature of play. Playground sports and games. A course open to both men and women. Second semester. Three hours' credit.

Courses for Women

Costumes, consisting of black bloomers, plain white middie, white tennis shoes and black tie, are required of all women for floor work.

1. **Gymnastics.** General floor work. Required of Freshmen. First semester, three hours. One hour's credit.

2. **Beginning Apparatus.** Eurythmics, tactics, day's order, exercises on booms, horses, rings, parallel bars and stall bars. Practical experience in giving commands. Emphasis placed upon technique. Notebooks. Prerequisite, Course 1. Second semester, three hours. One hour's credit.

3. **Folk Games.** Games of the nations arranged for teaching in public schools. Prerequisite, Course 1. First semester, three hours. One hour's credit.

5. **Swimming.** Practice in correct breathing, floating, and in back, side, breast and crawl strokes. First semester. One hour's credit.

6. **Advanced Swimming.** Life saving, diving, fancy stunts. Perfecting strokes learned in Course 5. Second semester. One hour's credit.

7. **Advanced Apparatus.** Continuation of Course 2. More difficult work, heavier exercises, more intricate commands. First semester. One hour's credit.

8. **Advanced Folk Games.** Continuation of Course 3. Games becoming more difficult. Second semester. One hour's credit.

9. **Indian Clubs and Wands.** A course open to both men and women. First semester. One hour's credit.

10. **Methods of Physical Education.** Classification of gymnastic material. Principles, technique, and the teaching of grades one to eight and high school inclusive. Lectures, outside reading and practice. Prerequisite, floor work one semester. Second semester. Two hours' credit.

11. **Management of Girls' Athletics.** Methods and practice in coaching basket ball, baseball, tennis, volley ball, hockey, field events. First semester. Two hours' credit.

12. **Playground Supervision.** Aims and purposes of playground activities. Organization, equipment and management of a playground. A study of the nature of play. Playground sports and games. A course open to both men and women. Second semester. Three hours' credit.

13. **Practice in Teaching.** Practical gymnastic experience with college classes under supervision. Outlines, lesson plans, and preparation. Prerequisites, Advanced Apparatus and Methods of Physical Education. First semester. Two hours' credit.

14. **Physical Measurements.** Study of the statistical and diagnostic value of measurements. Practice in taking and recording measurements and in giving proper exercises for defects. Second semester. Two hours' credit.

PHYSICS

Physics A. Elementary Physics. Mechanics and Heat. Prerequisites, Algebra and Plane Geometry. One laboratory period a week. First semester, four hours.

Physics B. Electricity, Magnetism, Sound and Light. Prerequisites, Algebra and Plane Geometry. One laboratory period a week. Second semester, four hours.

Physics A and B are the regular courses offered in the fourth year Academic course, and should be elected by all Freshmen, who desire to major in scientific subjects and who do not offer Physics as an entrance subject. To such students a college credit of three hours a semester will be given, unless the subject is necessary to complete the requisite number of entrance units.

Physics C. First semester. One hour credit.

Physics D. Second semester. One hour credit. Physics C and D consist of laboratory work only. These courses are given for the benefit of those students who have done the required amount of work in the class-room, but who have not had the advantage of a fully equipped laboratory. They are required of all such students who desire to continue with Physics 1 and 2 and may be taken along with Courses 1 and 2. In such cases, the combined laboratory fee is \$6.00 a semester.

1. **General Physics.** Mechanics and Heat. Prerequisites, Plane Trigonometry and College Algebra. First semester, four hours of

lectures and recitations, and one three-hour laboratory period a week. Five hours' credit.

2. **General Physics.** Electricity, Magnetism, Sound and Light. Prerequisites, Course 1 and Chemistry 1a. Second semester, five hours' credit.

3. **Fundamentals of Electric and Magnetic Circuits.** Prerequisite, Course 2. First semester, three hours.

5. **Electrical Measurements.** A laboratory course co-ordinate with Course 3. First semester, one or two credits.

6. **Direct and Alternating Current Machinery.** Prerequisite, Course 3. Second semester, three hours.

8. **Laboratory with Course 6.** Second semester, two hours.

9. **Radio Telegraph and Telephone.** A course of lectures and laboratory work consisting of elementary considerations of the fundamental laws and their application to modern radio telegraph and telephone. Practice receiving with a Grebe C R 8 and two stage amplifier. Prerequisite, Trigonometry and Course 2. First semester, two hours.

10. **Photography.** A course for amateur photographers treating the laws of light and color as applied to photography. Practice work includes intensification and reduction of negatives, making lantern slides, copies, enlargements, etc. Prerequisite, Course B. Second semester, two hours.

PSYCHOLOGY AND PHILOSOPHY

1. **General Psychology.** A general elementary course open to Sophomores. Required of all students. High school Psychology not accepted as equivalent. This course is a prerequisite to all courses in this department. First semester, three hours.

2. **Experimental Psychology.** A laboratory course covering the experiments from the standpoint of a standard laboratory manual. Open to Sophomores and Juniors. Prerequisite, Psychology 1. Second semester, two hours.

4. **Social Psychology.** A study of custom, conventionality, public opinion, suggestibility, imitation, as found in normal and abnormal social groups. Not accepted as credit toward a state certificate. Alternates with Psychology 2. Open to Juniors and Seniors. Second semester, three hours. Omitted in 1922-1923.

5. **Educational Psychology.** This course is identical with Education 5. First semester, three hours.

6. **Child Psychology.** A study of instincts, emotions, and the different mental capacities of childhood. Second semester, three hours.

7. **History of Philosophy.** The history of ancient and mediaeval philosophy to the Renaissance. For Juniors and Seniors. First semester, three hours.

8. **History of Philosophy.** Continuation of Course 7. The history of modern philosophy from Bacon and Descartes to the present time. Second semester, three hours.

10. Christian Ethics. A study of the moral principles of Christianity and an interpretation of them as applied to the life of the individual in all his relationships. Open to Juniors and Seniors. Required for graduation. Identical with Course 10 in the department of Bible and Religious Education. Second semester, two hours.

ROMANCE LANGUAGES

French

1. Elementary French. Fraser and Squair's French Grammar, Part 1. Careful training in phonetics. Special attention to pronunciation and vocabulary. First semester, five hours.

2. Continuation of Course 1. Grammar continued. Reading of at least two selected classics. Emphasis placed upon conversation. Dictation and memory work. Second semester, five hours.

3. Intermediate French. Carnahan's Short French Review Grammar as a basis for review and composition. Reading of selected classic authors, dictation and memory work. Conversation emphasized. Oral and written reports of collateral readings. First semester, five hours.

4. Intermediate French. A continuation of Course 3. Second semester, five hours.

French 4 is a prerequisite to any of the following courses. Not all of these courses will be given each year, but one of the courses subsequent to Course 4 is offered each semester.

5. The Novel. A study of the French novel from the Romantic school through the nineteenth century. Representative works of the following authors are read: B. de Saint-Pierre, Chateaubriand, Hugo, Sand, the elder Dumas, Merimee, Balzac, Flaubert, de Maupassant, Daudet, France, Loti, Bazin, Beurget. Readings, reports, and lectures in French. First semester, three hours.

6. The Drama. A study of the French drama from Corneille to Rostand, inclusive. Representative works of the following authors are read: Corneille, Racine, Moliere, Voltaire, Lesage, Marivaux, Beaumarchais, Hugo, Scribe, Augier, the younger Dumas, Coppee, Pailleron, Bornier, Rostand. Readings, reports, and lectures in French. Second semester, three hours.

8. The Seventeenth Century. A review of the literature of the seventeenth century. Representative works of the following authors are read: Descartes, Pascal, Corneille, Moliere, Boileau, La Fontaine, Bossuet and Racine. Second semester, three hours.

9. The History of French Literature. A study of the development of French literature from the fifteenth century to the end of the seventeenth century. First semester, three hours.

10. The History of French Literature. A continuation of the study of the development of French literature from the beginning of the 18th century to the present day. Second semester, three hours.

Spanish

1. Elementary Spanish. Grammar and reading. Special attention to training in pronunciation and to the acquisition of a vocabu-

lary. Fuentes and Francois' Practical Spanish Grammar. Marcial Dorado—Espana Pintoresca. First semester, five hours.

2. **Elementary Spanish.** Composition. Review of grammar. Conversational work emphasized. Reading from modern Spanish or Spanish-American authors. Second semester, five hours.

3a. **Intermediate Spanish.** Review of grammar. Composition. Conversation. Reading from modern Spanish and Spanish-American authors. Oral and written reports from collateral reading. First semester, three hours.

3b. **Intermediate Spanish.** Review of grammar. Commercial correspondence. Reading on commercial subjects. Acquisition of vocabulary emphasized. Collateral reading to give some insight into the life and history of Spain. McHale's Commercial Spanish. Fuentes and Elias' Manual de Correspondencia. First semester, two hours.

4a. **Intermediate Spanish.** Composition. Conversation. Reading from modern Spanish and Spanish-American authors. Oral and written reports from collateral reading. Second semester, three hours.

4b. **Intermediate Spanish.** Commercial correspondence. Reading on commercial subjects. Acquisition of vocabulary emphasized. Collateral reading to give some insight into the life and history of Spanish America. McHale's Commercial Spanish. Fuentes and Elias' Manual de Correspondencia. Second semester, two hours.

Additional courses in Spanish, adapted to the needs of the students, will be offered, if there is sufficient demand.

THE ACADEMY

GENERAL INFORMATION

Advantages. The Academy of Ottawa University is maintained in response to a widespread demand for a good secondary school by those who are not within reach of such a school and those who desire first class instruction under distinctly Christian influence. A distinct advantage of this Academy, as will be noted further on, is the possibility of mature students completing the course of study in three years.

The students in the Academy are entitled to all the privileges accorded to the pupils in the other schools. The library, reading room, gymnasium, athletic grounds, the musical, social, literary, and religious societies are all open to them upon certain conditions. These privileges bring the student in close touch with the more mature students who are in college. This is found to be a distinct advantage to the Academy.

Admission and Graduation. For entrance to the Academy without examination students are expected to present credentials showing that they have completed in a satisfactory manner the eighth grade of the common schools.

It is best for students to enter at the beginning of the academic year, because all classes begin at that time, but arrangements are made so that students who enter at other times can take such subjects as they are capable of pursuing with profit.

The requirement for graduation is fifteen units. A unit is described as one subject pursued for thirty-five weeks, four hours per week.

College Preparatory Course. The Academy is a most excellent place to prepare for college. Full fifteen units of work are given. These units vary somewhat according to the course that the pupil expects to pursue in college. In some high schools only two or three years' work is given. Students from such high schools will find that the Academy is an excellent place in which to complete their preparation for college.

Commercial Course. The Commercial Course is offered in response to a demand on the part of those who desire a good elementary training in commercial subjects in connection with other subjects usually given in a secondary school. It also furnishes a good basis for a college course in commerce and finance. A student taking this course will secure from eleven to thirteen college preparatory credits. Good students may take both the commercial subjects and the required college entrance subjects in four years.

All of the Commercial work to meet the requirements for a State Teacher's Certificate is offered for those who desire to teach.

The course also includes training in Secretarial work in addition to the regular stenographic courses. The Course in Business Communication covers the field of Salesmanship, Advertising and Business Correspondence. The course in Office Training is a scientific study of the office, and some office equipment and appliances that

make for modern efficiency, such as the Adding Machine, Calculator, Improved Filing, Neostyle, Protectograph and Dictaphone.

Home Economics. The Domestic Science Course (Home Economics A) is elementary cooking. One-half unit. One hour lecture and six hours' laboratory. Fee, \$4.00. The Domestic Art Course (Home Economics B) includes elementary sewing; open to Academy girls and to those College girls who have not had high school sewing. One-half unit. One hour lecture and six hours' laboratory.

Scholarships. The Board of Trustees will give free tuition in either of the Academy courses for one year to the eighth grade graduate from each county in Kansas who ranks highest in that county, upon a certificate of this fact from the County Superintendent. This is an inducement to young people in the grades to do the best work of which they are capable.

Expenses. The expenses for tuition, board, fees and incidentals are the same as in the college.

Plan of Work. Students in the Academy are expected to take four subjects, which is sufficient for the ordinary student. Mature students who are in good health and who maintain the average grade of B during their first semester will be permitted to take five subjects, so long as they can maintain that grade of work. In this manner the fifteen units required for admission may be completed in three years. It is possible for strong students who spend four years in the Academy to take some college subjects during the last year and enter the College with some advance credits. Many of the students desire to take Music or Expression.

Music. A suitable amount of credit is given Academy students for work done in the Conservatory of Music, on the basis either of membership in the oratorio chorus or of individual instruction. The amount of such credit is determined by the Dean of the Conservatory of Music and the Principal of the Academy.

COURSES OF INSTRUCTION

In the following schedule the letter A placed after a subject indicates the first semester of that subject, the letter B indicates the second semester, and so on.

Classes meet four times a week in periods of sixty minutes.

COLLEGE PREPARATORY COURSE

First Year

First Semester		Second Semester	
English	A	English	B
Latin	A	Latin	B
Ancient History	A	Ancient History	B
Algebra	A	Algebra	B

Second Year

English	C	English	D
Latin, Caesar	C	Latin, Caesar	D
Geometry, Plane	C	Geometry, Plane	D
Elective Subjects:			
Medieval History	C	Modern History	D
Physiology		Physiography	
Bookkeeping		Bookkeeping	
Typewriting		Typewriting	

Third Year

English	E	English	F
Elective Subjects:			
Latin, Cicero	E	Latin, Cicero	F
Geometry, Solid	E	Algebra	F
Botany	A	Botany	B

With the consent of the registration committee certain other subjects may be chosen from the list of fourth year subjects.

Fourth Year

All the subjects are elective.

Physics	A	Physics	B
American History	E	American History	F
Latin, Virgil	G	Latin, Virgil	H
Zoology	A	Zoology	B
Commercial Geography		Commercial Law	
Bookkeeping	A	Bookkeeping	B
Music or Drawing		Music or Drawing	
Shorthand		Shorthand	
Civics		Typewriting	
Typewriting		Home Economics B	
Home Economics A			

With the consent of the registration committee any of the following subjects may be chosen: College Algebra; Plane Trigonometry; Chemistry 1a; Mechanical Drawing 1, 2; Rhetoric 1, 2; History 1, 2; History 1A, 1B; Bible 1, 2, 3; Home Economics 3; Modern languages.

COMMERCIAL COURSE

First Year

First Semester		Second Semester	
English	A	English	B
Algebra	A	Algebra	B
History	A	History	B
Penmanship and Spelling		Penmanship and Spelling	

Second Year

English	C	English	D
Plane Geometry	C	Plane Geometry	D
Elect one from the following:			
Latin	A	Latin	B
Physiology		Physiography	
Typewriting		Typewriting	

Third Year

Bookkeeping	A	Bookkeeping	B
English	E	English	F
Elect three from the following:			
Latin, Caesar	C	Latin, Caesar	D
Solid Geometry	E	Algebra	F
Physics	A	Physics	B
Botany	A	Botany	B
Medieval History	C	Modern History	D

Fourth Year

Commercial Geography		Commercial Law	
Elect three from the following:			
Latin, Cicero	E	Latin, Cicero	F
Stenography		Stenography	
American History	E	American History	F
Zoology		Zoology	
Civics			
Home Economics A		Home Economics B	

THE CONSERVATORY OF MUSIC

GENERAL INFORMATION

The Conservatory of Music is located in the center of the city, where it is easily accessible to both students and citizens. It contains a reception room, four teaching rooms and a large recital hall. Arrangements will be made for practice rooms when desired. Instruction will be given in University Hall, if more convenient to the students.

The Conservatory offers excellent instruction and furnishes unusual opportunities to the students and to the public in general. Good foundations may here be laid for advanced work in special schools. The aim of the Conservatory is to afford such facilities and environment for the study of music that the student may receive a broad, esthetic, mental and moral culture.

Requirements for Admission

Fifteen units of preparatory work are required for unconditional entrance to any musical course. These units must be taken in the Academy of the University or in some accredited school or academy. A student will be admitted if he does not lack more than three units of work, but these units must be made up in the first part of the course. They can be made up in the Academy. Special students may enroll at any time and take such work as they may be prepared to pursue.

To enter the Degree Course, it is essential that the student shall have had at least one year's systematic instruction in singing, or two or three years' similar instruction on the instrument in which he majors. When voice or violin is the major subject, the student will be expected to have completed at least two years' work in piano.

Requirements for Graduation

The Degree Course:

English, ten hours;

A modern language, twenty hours;

Harmony, two lessons a week, four semesters;

Counterpoint, two lessons a week, two semesters;

History of Music, two lessons a week, two semesters;

Harmonic Analysis, two lessons a week, first semester;

Form and Composition, two lessons a week, second semester;

Musical Appreciation, one lesson a week, two semesters;

Applied Music, two half hours a week, eight semesters.

By applied Music is meant the practical study of piano, organ, violin or voice, in private, or individual lessons.

Teachers' Certificate Course:

Harmony, two lessons a week, four semesters;

History of Music, two lessons a week, two semesters;

Harmonic Analysis, two lessons a week, one semester;

Form and Composition, two lessons a week, one semester;

Applied Music, two lessons a week, six semesters.

The student must also take the courses in Psychology, Methods of Teaching, and must take normal training for two semesters, do-

ing practice teaching under the head of the department in which he majors, for the same period.

The entrance requirements for this course are the same as those under the degree course.

Public School Music Course:

Harmony, two lessons a week, four semesters;
History of Music, two lessons a week, two semesters;
Public School Music Methods, two lessons a week, four semesters;
Musical Appreciation, one lesson a week, two semesters;
Piano, two lessons a week, two semesters;
Voice, two lessons a week, four semesters.

In addition to the above, students will be expected to take college subjects as follows: Psychology, Methods of Teaching, School Management, History of Education, and sixteen hours of electives.

Certificates of musical attainment will be issued to students upon request, indicating the amount of work completed.

College Credits

Credit for music taken elsewhere may be given upon recommendation of the Dean of the Conservatory.

A certain number of courses in the Conservatory of Music will be counted toward a Bachelor's degree in the College. A maximum of sixteen hours' credit will be thus allowed, not more than half of the credit so granted to be for applied music; provided that a maximum of four hours' credit be granted on applied music unaccompanied by courses in theory. The courses receiving college credit are the following:

1. First Year Harmony. Credit two hours each semester.
2. Second Year Harmony. Credit, two hours each semester.
3. Counterpoint. Credit, two hours each semester.
4. History of Music. Credit, two hours each semester.
5. Harmonic Analysis. Credit, two hours, first semester.
6. Form and Composition. Credit, two hours, second semester.
7. Oratorio. One 60-minute rehearsal. Credit, one-half hour each semester.
8. Orchestra. Credit, one hour each semester. A maximum of four credits.
9. Musical Appreciation. Credit, one-half hour each semester.
10. Applied Music (Piano, Voice, etc.) Two half-hour lessons a week accompanied by a minimum of five hours' practice a week. Two hours' credit each semester.

One half-hour lesson a week accompanied by a minimum of five hours' practice a week. One hour credit each semester.

COURSES OF INSTRUCTION

Piano-Forte

In modern pianoforte playing, a systematically developed technical foundation is the first requisite. Our teachers accomplish this by the use of carefully selected and graded exercises and studies. The easier works of the old masters and modern European and American writers are used in connection with these studies. Especial attention is paid to the pupil's conception of the music, phrasing, rhythm, tone and technical accuracy.

As the student becomes more advanced, the more difficult compositions of our modern masters are used. Interpretation becomes a special study in the last two years' work.

Organ

One must have completed a preliminary piano course before entering upon organ work. The pupil is informed in regard to the structure of the organ and its special characteristics. He is trained particularly in the playing of hymns and accompaniments, as our aim is to turn out church, not concert, organists.

Violin

Particular attention is paid to the manner of holding the violin and bow, and to the general position of the student. The ear is trained so that the pupil may be able to play his music in correct tune.

The work starts with simple scale and technical studies, and as the pupil advances, he is given the harder studies and solos. In the advanced work he studies the harder sonatas and concertos.

Voice

The aim of this department is to present the scientific principles and the modern methods of voice culture, to develop carefully and fully all the vocal powers of the student, and to produce an intelligent and artistic style of singing.

The time needed to complete the course in vocal study will depend largely upon the pupil's musical ability, previous preparation, and the amount of time devoted to the work. Each pupil works independently of others, is taught to avoid superficial work, and is guided conscientiously to the attainment of correct tone emission and interpretative expression.

Public School Music

Now that music is a recognized subject in the public school system of the state, a Public School Music Course is offered, which will prepare students for taking up work as supervisors of Public School Music. Every phase of music work in school from the Primary through to the High School is treated, and all the various problems that arise are thoroughly discussed.

We not only aim to prepare the student for this Public School Music work, but to give him adequate preparation for doing musical work in the community outside the schools.

The course as outlined meets the requirements of the State Board of Education, as regards Public School Music Supervisors. More musical work may be substituted for the college electives in this course.

Harmony

This branch of music study is equally important to singer and player, and also enables one to compose, harmonize and analyze music. No student will be allowed to graduate until a minimum amount of this work has been done. Two lessons a week.

Counterpoint

The principles of harmony are applied to the melodious treatment of two or more voice parts in combination. The work includes free harmonization of choral melodies, two, three and four-part counterpoint in the several orders, contrapuntal and imitative treatment of

the subjects in different voices. Opportunity is given for original work. Two lessons a week.

History of Music

A comprehensive knowledge of the history of music is indispensable for any musician, as a masterwork can only be understood when the life, habits and environment of the composer are well known.

The term "History of Music" will be employed in a broad sense of the word, as more than the biography of a musician is aimed at. Two lessons a week.

Harmonic Analysis

In this course, the works of the great composers are studied and analyzed according to laws of Harmony. Two lessons a week.

Form and Composition

In order that the student may thoroughly understand the thought of the composer, it is necessary that he should be familiar with the form the composer uses for his musical thought. This course not only teaches the student this form, but he is taught to use this form in his own compositions. Two lessons a week.

Musical Appreciation

A study of the works of the great composers, performed by the best orchestras and soloists of all kinds, is conducted throughout the year. A large number of records has been obtained for the use of this class. In addition, the teachers and advanced pupils perform such of the works as may be played upon the piano or sung by solo voices. One lesson a week.

OTHER MUSICAL ADVANTAGES

Ensemble—Classes in Piano-forte

Ensemble classes are organized yearly. Four, six and eight hand transcriptions are played for the development of sight reading at the instrument, and thereby to gain a knowledge of symphonic literature.

This work is required of all pupils sufficiently advanced.

Oratorio Society

The Oratorio Society was organized for the purpose of rendering high class music. It meets in the Conservatory Hall each Tuesday evening of the school year. Two concerts each year are regularly given by the society.

The work of this society has proved very stimulating to the musical interests of the college and has offered special opportunities to become more intimately acquainted with masterpieces of song and melody. The oratorio work is a permanent feature of the college.

Glee Clubs

A girls' glee club and a boys' glee club are also organized every year for the purpose of studying the more brilliant and lighter works of the masters, and for the purpose of acquiring a higher degree of perfection than can be obtained by a big oratorio chorus, and lastly to furnish music for various public events of the school year.

The applicant who wishes to join must be a member of the Oratorio Chorus. Tuition is free.

Recitals

During the school year a series of recitals is given. These re-

citals are about forty minutes in length and pupils from all departments are expected to participate.

The frequency of these recitals gives all the pupils who are proficient a number of appearances during the season. At the close of the season a concert is given by the graduates.

Individual recitals in piano, voice and violin are given from memory in the second semester by such advanced students as the faculty of the Conservatory may select.

The College Orchestra

The college orchestra furnishes valuable opportunities for study, practice, and ensemble playing to students who are working on string and reed instruments. Instruction in orchestra is free, although students who join the organization will be expected to attend all rehearsals, practices, and chapel exercises, at which the orchestra regularly appears.

Musical Attractions

It is conceded that a musical education consists largely in hearing the best music of the best interpreters. For this reason artists of the the first magnitude have been brought to Ottawa. The following are a few of the more prominent attractions that have visited us: Lillian Nordica, Ernestine Schumann-Heink, Albert Spalding, Frieda Langendorff, Maude Powell, St. Paul Symphony Orchestra with their soloists, the Adolph Bolm Ballet with the Little Symphony Orchestra, Erika Morini and Alberto Salvi.

EXPENSES

Voice, two 30 minute lessons a week for one semester.....	\$60.00
Voice, one 30 minute lesson a week for one semester.....	32.00
Piano, Mrs. Utt, two 30 minute lessons a week for one semester	45.00
Piano, Mrs. Utt, one 30 minute lesson a week for one semester..	25.00
Piano, Miss Forbes, two 40 minute lessons a week for one semester	32.00
Piano, Miss Forbes, one 40 minute lesson a week for one semester	18.00
Violin, Miss Nelson, one 30 minute lesson a week for one semester	27.00
Harmony, one semester	10.00
History of Music, one semester	5.00
Harmonic Analysis, one semester.....	18.00
Form and Composition, one semester	18.00
Public School Methods, one semester	18.00
Musical Appreciation, one semester	5.00
Organ, Mrs. Utt, two 30 minute lessons a week for one semester	45.00

Single lessons or class lessons may be arranged for with the Dean and the individual teacher.

Lessons falling on holidays will not be made up except by special previous arrangement with the instructor.

Tuition is to be paid in advance for at least one-half semester.

The University reserves the right to change these rates without notice.

REGISTER OF STUDENTS

COLLEGE

Seniors

Ayrault, Jessie Ruth, Ottawa
 Banta, Helen Martha, Oberlin
 Barnes, Oliver E., Ottawa
 Barnes, Richard A., Ottawa
 Barnhart, Wilma, Ottawa
 Blickenstaff, Earle, Oberlin
 Campbell, Helen Clark, Ottawa
 Carter, Winnie H., Ottawa
 Conard, Alberta Belinda, Ottawa
 Cramer, Vinton Jennings, Wellsville
 Davis, John S., Williamsburg
 Durst, Marguerite, Ottawa
 Everingham, Sarah B., Ottawa
 Garst, Madge, Ottawa
 Harris, Margaret Rutherford, Ottawa
 Hegberg, Margaret, Ottawa
 Hulburt, Helen Theressa, Pratt
 Johnson, Ruby Elizabeth, Ottawa
 Kemper, Hollis Duvall, Lakin

Lichlyter, Lola May, Sharon
 Macaulay, Minnie Maude, Des Moines, Ia.
 Moffett, Clyde E., Ottawa
 Perrussel, Laura Louise, Onaga
 Peterson, Gordon A., Lindsborg
 Phelps, Paul Stanley, Ottawa
 Potter, Isabel, Natoma
 Rolo, Orlo M., Ottawa
 Ross, Manley, Alden
 Sessen, Lyman, West Plains, Mo.
 Spradling, Zella, Independence
 Swinehart, Clay E., Norwich
 Teetor, Josephine, Ottawa
 Wilson, Lucile, Mound Valley
 Wimmer, Guy Halbert, Ottawa
 Wimmer, Edna Bailey, Ottawa
 Wise, Helen Ena, Mound Valley
 Wolgast, Dewey Earl, Alta Vista

Juniors

Armstrong, Eula Helen, Ottawa
 Bishop, June, Sedan
 Boyer, Fred A., Uniontown
 Broady, Eunice, Plains
 Dick, Edwin Glenn, Ottawa
 Dryden, Claude G., Rolla
 Easley, Winston Herndon, Ottawa
 Elliott, Lona Amo, Ottawa
 Foster, Dorothy Kent, Ottawa
 Garnett, Gladys, Kansas City, Mo.
 Gentry, Mildred Alice, Ottawa
 Griffith, Lloyd E., Barnard
 Harmon, Roy Lee, Sedan
 Hartley, Ward, Ottawa
 Hunt, Harold J., Willmore
 Jordan, Olin, Iola

Keetch, Florence John, Ottawa
 Lare, Howard Clayton, Ottawa
 Mather, Marion, Ottawa
 Mitchell, George Clarence, Ottawa
 Morlan, Fay U., Rantoul
 Ott, Charles A., Ottawa
 Owen, Lorene Maud, Boyero, Colo.
 Paul, Joseph A., Ottawa
 Pierson, Luther, Ottawa
 Randall, Esther Inez, Sedan
 Reichert, Faye Allena, Silver Lake
 Schreiner, Edna, Ottawa
 Seaver, Mrs. Mabel Edna, Ottawa
 Sharp, Dorothea, Kansas City, Kans.
 West, Mary Virginia, Ottawa

Sophomores

Bailey, Ogle F., Ottawa
 Benton, Walter E., St. John
 Bergerhaus, Joseph Edward, Ottawa
 Branaman, Hugh A., Ottawa
 Brewster, Nathan, Burden
 Broady, George, Plains
 Campbell, Ruth, Ottawa
 Crater, Faye Marie, Ottawa
 Culbertson, Howard K., Sterling
 Darner, Lucile, Ottawa
 Dean, Evelyn, Princeton
 Deering, Rufus E., Clements
 Dugan, Millet, Ottawa
 Early, Edwin Loren, Ottawa
 Elder, May, Ottawa
 Evans, Neal E., Ottawa
 Gillett, Lloyd Henry, Ottawa
 Gillette, Genevieve Alice, Ottawa
 Gloyd, Howard K., Wellsville
 Gray, Cecil Pierre, Ottawa
 Harmon, Margaret, Sedan
 Harness, Alta Ethel, St. John
 Henderson, Era Mae, Horton
 Henderson, Vera Rae, Horton
 Heritage, Herbert G., Yates Center
 Hjort, Marguerite Phyllis, Ottawa
 Hunt, Gertrude Lola, Ottawa

Knox, Frank M., Ottawa
 Laird, Wallace A., Ottawa
 Lawrence, Catherine, Ottawa
 Lucas, Loren L., Pratt
 McLean, Nora Belle, Hiawatha
 McMurray, Guy R., Ottawa
 Marshall, Frances Lulu, Kansas City, Mo.
 Marts, Ralph O., Ottawa
 Mathias, Pearl, Ottawa
 Matteson, Florence Fay, Ottawa
 Maxwell, Florence Laona, Ottawa
 Merrifield, Evah Rosanna, Ottawa
 Moore, Hilbert Russell, Paola
 Owen, Theodore Chancey, Boyero, Colo.
 Parsley, Hattie Emma, Ottawa
 Phelps, Lois, Ottawa
 Richter, Maurice Richard, Effingham
 Rouse, George E., Ottawa
 Safford, Martha Julia, Elkhart
 Searcy, Lucile, Stafford
 Settles, Bernice N., Ottawa
 Shaner, Helen M., Ottawa
 Shaver, Thelma Laurine, Ft. Scott
 Skidmore, Zana Gabriella, Ottawa
 Stein, Rachel, Bellaire
 Teetor, Paul, Ottawa
 Weber, Effie Mae, Ottawa

Jewell, Edwin Arnold, Mt Hope
 Johnson, Marguerite Ruth, Ottawa
 Keith, Gladys Estella, Ottawa
 King, Gladys Thelma, Ottawa

Whitney, Harold B., Wichita
 Winn, Nellie Elizabeth, Gore, Okla.
 Wood, Elsie Lora, Clifton

Freshmen

Akin, Irene J., Richmond
 Allebach, Hobart K. B., El Dorado
 Bailey, Lowell, Ottawa
 Baldridge, Dorothy Mildred, Ottawa
 Balyeat, Helen Marion, Blue Mound
 Barnes, William Everett, Blue Mound
 Berlin, George Dean, Ottawa
 Bishop, John, Sedan
 Bland, Millard Thomas, Concordia
 Blickenstaff, Edith, Oberlin
 Blunt, Dorothy Viola, Cawker City
 Bolen, Everett W., Oberlin
 Boltz, Harold Glenn, Ottawa
 Bond, Helen Lucille, Ottawa
 Borgman, Ada Marie, Foristell, Mo.
 Boyer, Margaret Louise, Cawker City
 Brannan, Maurice Cass, Ottawa
 Brannan, Blanche Elizabeth, Larned
 Breiner, F. Eugene, Kansas City, Mo.
 Briggs, Lloyd Myrl, Neodesha
 Brooks, Lorraine Pemela, Briggsdale, Colo.
 Cain, Alva Nelson, Liberal
 Cain, Ethel Mae, Liberal
 Cain, Mabel Ulah, Liberal
 Casey, Winifred Leota, Pomona
 Clark, Ruby Jeanette, Ottawa
 Coad, Dwight Sheldon, Cawker City
 Coffin, Dwight Dewitt, Manhattan
 Coulson, Clyde Chester, Newton
 Cudworth, Beulah Marie, Wichita
 Cudworth, Marcia Lucille, Wichita
 Curry, Gladys Louie, Ottawa
 Cushing, Faye, Ottawa
 Darner, Otis Lee, Ottawa
 Diven, Ernest Headen, Cherryvale
 Dryden, Dean W., Rolla
 Early, Jessie Ruth, Ottawa
 Erickson, Ida Caroline, Topeka
 Ervin, Blanche Emma, Newton
 Feasel, Chester, Ottawa
 Feasel, Meda Sims, Ottawa
 Galloway, Walter Charles, Rosedale
 Gaunt, Golda May, Great Bend
 Golton, Harold Wheeler, Milton
 Goodman, Lowell Edwin, St. John
 Gorsage, Chauncey L., Wellsville
 Gorsage, Chester A., Wellsville
 Gossett, Burnham, Ottawa
 Griffin, James Russell, Garden City
 Griffin, William Lewis, Garden City
 Grow, Velma Florence, LaHarpe
 Halloren, Clyde E., Ottawa
 Hanna, Ethel May, Ottawa
 Hatten, Corinne Rose, Mt. Hope
 Hawkinson, Clarence W., Lindsborg
 Heath, Estella, Liberal
 Heckenlively, Henry Hubert, Riverton, Ia.
 Henderson, Homer, Colony
 Hider, Mary Yohanna, Ottawa
 Hines, Nelland Harvey, Oil Hill
 Hoadley, Alice Louise, Ottawa
 Hogue, Emma Lois, Pratt
 Holland, Nellie Mae, Ft. Scott
 Holman, Josephine Ruth, Columbus
 Howard, Harry Gordon, Kansas City, Mo.
 Howell, Ethel Jeneva, Ottawa
 Hughes, Chester T., Hale, Mo.

Inman, Leah Lisette, Ottawa
 Ireland, Romola Marie, Bronson
 Ireland, William Harold, Bronson
 Jackson, Veda C., Ottawa
 Jones, Herbert Robert, Colony
 Kirkland, Ralph Eugene, Richmond
 Knapp, Hazel Pearl, Ottawa
 Lawrence, George William, Ottawa
 Leonard, Forest H., Ottawa
 Lewis, Joseph Edwin, Colony
 Lindgren, Carl G., Smolan
 Love, Fern Delma, Oberlin
 Manewal, Bernard Harry, Ottawa
 Martin, Ethel Ella, Wellington
 McCandless, Cora Jeanette, Richmond
 McClay, Marieta Delphine, Ottawa
 McCrear, Samuel Robert, Richmond
 Mercer, Charles Arthur, Rosedale
 Miller, Edwinna, Ottawa
 Nichols, John Paul, Oxford
 Nichols, Pauline Opal, Oxford
 O'Connor, Roderick Marion, Ottawa
 Olds, Walter Van, Cherryvale
 Otte, Marion Opal, Ottawa
 Palmquist, Theodore Raleigh, Ottawa
 Park, Jessie M., Neodesha
 Parmenter, Ruth Euphemia, Columbus
 Paul, Frances E., Ottawa
 Pendleton, Gertrude Lingard, Princeton
 Phelps, Arthur Dwight, Ottawa
 Potter, Theodore C., Natoma
 Post, Frank Lloyd, Colony
 Price, Merle M., Richmond
 Rankin, Gladys Moore, Anthony
 Ricky, Madge, Norton
 Niggs, John Forest, Ottawa
 Riller, Verda, Heward
 Ritchie, Evanelle Rose, Ottawa
 Roberts, Adrian E., Ottawa
 Rogers, Bernice Marie, Abilene
 Rush, Evelynne Laura, Ness City
 Sargent, Herbert Aaron, Winfield
 Scraper, Joseph Frank, Asherville
 Scott, Margaret Elizabeth, Clifton
 Senter, Alvis Raymond, Ottawa
 Short, Eleanor Marian, Ottawa
 Skidmore, Lottie Myrtal, Ottawa
 Smith, Harlan Edward, Ottawa
 Smith, Edward Jacob, Cawker City
 Snyder, Corwyn Albert, Ottawa
 Snyder, Valma Kenneth, Ottawa
 Staley, Mary Neola, Ottawa
 Steln, Vera, Smith Center
 Storer, Everett Nuzum, Ottawa
 Strahan, Ernest Wesley, Ottawa
 Teague, Frederick R., Collyer
 Terhune, Marguerite, El Reno, Okla.
 Thom, Adela Magdalene, Isabel
 Tonkin, Harold Emerson, Colony
 Twining, Edith Lois, Ottawa
 Twining, Paul E., Ottawa
 Utz, Clarence Albert, Plains
 Vaughan, Portia Loyetta, McPherson
 West, Ulverson, Bronson
 Williams, Naomi, Columbus
 Young, Mary Sunshine, Ottawa

Special Students

Bailey, Harold Wood, Denver, Colo.
 Barnes, Leilella Hudson, Ottawa
 Barnes, Mamie Dennis, Ottawa
 Rock, Frank F., Manchester Depot, Vt.
 Carr, Willmot, Ottawa
 Clanton, Cecile May, Ottawa
 Costigan, Walter, Ottawa

Dunlap, Gertrude, Ottawa
 Hegberg, Clarence W., Ottawa
 Lancaster, Floribel May, Ottawa
 Larsen, Ellen, Ottawa
 Schweltzer, Alma Mary, Ottawa
 Simmons, Hazel Lee, Ottawa
 Swenson, Alvena, Concordia

ACADEMY

Fourth Year

Baird, Evelyn Ruth, N. Topeka
 Brewster, Sara Alice, Ottawa
 Hoagland, Georgia Emma, Ottawa
 Jewell, Gertrude, Mt. Hope
 Lewis, Melvina, Ottawa

Olson, Ruby J., Ottawa
 Scofield, George Byrd, Ottawa
 Snyder, Leatha Marie, St. John
 Sprout, Willis Franklin, Milton

Third Year

Gillette, Raymond, Ottawa
 Good, Margaret, Ottawa
 Harrison, Paul, Ottawa
 Heath, Elnora Mae, Liberal
 Kennedy, Karl Leander, Ottawa

Milan, Ruth Josephine, Ottawa
 Staadt, Henry, Ottawa
 Tallman, Sheldon, Ottawa
 Willis, Ruby, Wakenda, Mo.

Second Year

Brewster, Albert Henry, Ottawa
 Carter, Vernon Isaac, Coffeyville
 Dunlap, Lawrence Edward, Ottawa

Gerhard, May, Ottawa
 Hayward, Herbert Mowbray, Ottawa
 Phelps, Mary Catherine, Ottawa

First Year

Bailey, Gertrude Charlotte, Ottawa
 Brauning, Dorothy, Leeds, Mo.
 Brauning, Ted Fred, Leeds, Mo.
 Chappell, James Wilbert, Paola
 Freese, Ralph Wesley, Lawrence

Price, Lorna Mabeth, Coffeyville
 Stith, Dorothy Jane, Kansas City, Mo.
 Tyler, Lewis R., Garden City
 Walker, Louise Palmer, Ottawa

CONSERVATORY OF MUSIC

Piano

Adams, Mary, Ottawa
 Amyx, Dixie, Ottawa
 Anderson, Beatrice, Ottawa
 Andrew, Theresa, Ottawa
 Bailey, Ogle, Ottawa
 Baird, Nora, Wellsville
 Bellis, Cleo, Ottawa
 Benton, Walter, St. John
 Bevis, Lila, Osawatomie
 Black, Hallie, Ottawa
 Blunt, Dorothy, Cawker City
 Blunt, Opal, Ottawa
 Borgman, Ada, Foristell, Mo.
 Bowers, Benjamin, Ottawa
 Bowman, Marjorie, Ottawa
 Boyer, Margaret, Cawker City
 Brooks, Lorraine, Briggsdale, Colo.
 Brauning, Dorothy, Leeds, Mo.
 Bryan, Elizabeth, Ottawa
 Bryan, Martha, Ottawa
 Conard, Frances, Ottawa
 Cornell, Elizabeth, Ottawa
 Cornell, Mildred, Ottawa
 De Tar, Catherine, Ottawa
 Dick, Carol, Ottawa
 Diven, Ernest, Cherryvale
 Early, Ruth, Ottawa
 Eldridge, Mildred, Ottawa
 Elledge, Phyllis Nadine, Ottawa
 Everison, Hazel, Ottawa

Johnson, Ruth, Rantoul
 Jones, Esther, Ottawa
 Keen, Ruth, Ottawa
 King, Gladys, Ottawa
 Lister, Evelyn, Ottawa
 Lewis, Florence Ruth, Ottawa
 Lewis, Luetta, Ottawa
 Marcell, Helen, Ottawa
 Marchand, Mrs. A. L. Ottawa
 Martin, Mrs. Chas., Ottawa
 Mathias, Pearl, Ottawa
 Maxwell, Florence, Ottawa
 Maxwell, Mary, Ottawa
 May, Mrs., Ottawa
 McCune, Jesse, Ottawa
 McDougall, Bessie, Kansas City
 Neighbors, Beatty, Ottawa
 Neighbors, Martha, Ottawa
 O'Connor, Esther, Ottawa
 Owen, Lorene, Boyero, Colo.
 Payne, Aldyth, Princeton
 Penny, Ellen, Ottawa
 Penny, Jane, Ottawa
 Pierce, Dorothy May, Pomona
 Rogers, Bernice, Abilene
 Rolo, Thelma, Ottawa
 Rowen, Clarence, Princeton
 Rust, Teddy, Ottawa
 Safford, Martha, Elkhart
 Schreiner, Edna, Ottawa

Everhart, Everett, Ottawa
 Feasel, Meta Sims, Ottawa
 Fay, Reginald, Ottawa
 Fenton, Blanche, Ottawa
 Fisher, Edith, Ottawa
 Fisher, Mildred, Ottawa
 Forrer, Mrs. Thomas, Princeton
 Geer, Oma, Ottawa
 Gentry, Claudia, Ottawa
 Glassford, Belva, Ottawa
 Harms, William, Jr., Ottawa
 Harness, Alta, St. John
 Hattan, Corinne, Mt. Hope
 Hay, Wilma, Ottawa
 Hay, Helen, Ottawa
 Heles, Amella, Ottawa
 Hegberg, Florence, Ottawa
 Howell, Ethel, Ottawa
 Howell, Vada, Ottawa
 Hudelson, Frances, Pomona
 Hudelson, Lois, Pomona
 Hulburt, Helen, Pratt
 Hurd, Harold H., Ottawa
 Hymes, Dorothy, Ottawa
 Jackson, Ellis, Ottawa
 Johnson, Ray, Rantoul

Searcy, Lucile, Stafford
 Seymour, Harriet, Rantoul
 Shaver, Thelma, Ft. Scott
 Shull, Ethel, Ottawa
 Smith, Edna, LeLoup
 Smith, Esther Louise, Ottawa
 Smith, Harlan, Ottawa
 Sornberger, Mrs. Paul, Ottawa
 Starns, Ruth, Ottawa
 Steelman, Helen, Ottawa
 Stilwell, Mildred, Ottawa
 Swanson, Rena, Ottawa
 Swenson, Alvena, Concordia
 Tallman, Sheldon, Ottawa
 Terhune, Marguerite, El Reno, Okla.
 Thom, Adela, Isabel
 Throne, Mary, Ottawa
 Tulloss, Helen, Rantoul
 Tulloss, Kathryn, Rantoul
 Vaughan, Portia, McPherson
 Ward, Marie Elaine, Ottawa
 Weaver, Ruth, Ottawa
 Whitaker, Mary, Ottawa
 Willson, Vera Mae, Ottawa
 Windett, Maggie, Queremo
 Young, Sunshine, Ottawa

Voice

Akin, Irene, Richmond
 Ayrault, Ruth, Ottawa
 Bailey, Lowell, Ottawa
 Baldwin, Robert, Ottawa
 Blunt, Dorothy V., Cawker City
 Briggs, Lloyd M., Neodesha
 Campbell, Helen, Ottawa
 Crawford, Melva, Ottawa
 Dick, Glenn, Ottawa
 Easley, Winston, Ottawa
 Feasel, Meta Sims, Ottawa
 Foster, Dorothy, Ottawa
 Freese, R. W., Lawrence
 Good, Margaret, Ottawa
 Griffith, Lloyd, Barnard
 Harbour, Verna, Ottawa
 Harness, Alta, St. John
 Henderson, Era, Horton
 Henderson, Vora, Horton
 Heritage, Herbert, Yates Center
 Hoagland, Georgia, Ottawa
 Holland, Nellie Mae, Ft. Scott
 Hostetter, Josephine, Wellsville
 Howell, Ethel, Ottawa
 Jewell, Mrs. H. L., Ottawa

Jewell, Gertrude, Mt. Hope
 King, Gladys, Ottawa
 McClay, Marieta, Ottawa
 Nelson, Mary, Ottawa
 Newfield, J. E., Ottawa
 Nichols, Pauline, Oxford
 Overstreet, Lena, Wellsville
 Owen, Theodore, Boyero, Colo.
 Randall, Esther, Sedan
 Reichert, Faye, Silver Lake
 Ricky, Madge, Norton
 Rogers, Bernice, Abilene
 Safford, Martha, Elkhart
 Shaver, Thelma, Ft. Scott
 Smith, Harlan, Ottawa
 Snyder, Leatha, St. John
 Sornberger, Mrs. Paul, Ottawa
 Spradling, Zella, Independence
 Swenson, Alvena, Concordia
 Trump, Mabelle, Formosa
 Vickers, D. Wayne, Pomona
 Wakefield, Mrs., Ottawa
 Willson, Lucile, Mound Valley
 Wise, Helen, Mound Valley

Violin

Bales, Lila, Ottawa
 Blum, Robert, Ottawa
 Brooks, Loralne, Briggsdale, Colo.
 Brown, Enoch, Ottawa
 Bunn, Jacquelin, Ottawa
 Bryant, Juanita, Ottawa
 Capps, Ruth, Ottawa
 Casey, Winifred, Pomona
 Cole, Hazel, Ottawa
 Dean, Dorothy, Ottawa
 Elliott, Lona, Ottawa
 Eldridge, Mable, Ottawa
 Fowler, Laurance, Ottawa
 Gabriel, Mary, Ottawa
 Groom, Robert, Ottawa
 Hartley, Lester A., Ottawa
 Hymes, Esther, Ottawa

Johnson, Irma, Pomona
 Kerr, Dean, Ottawa
 Knapp, Hazel, Ottawa
 Lockhart, Henry, Ottawa
 Loeb, Pauline, Ottawa
 Marchand, George, Ottawa
 Maxwell, Mildred, Ottawa
 Rodgers, Winifred, Ottawa
 Scott, Evelyn, Ottawa
 Scott, Elizabeth, Ottawa
 Shaver, Thelma, Fort Scott
 Sheldon, Elizabeth, Ottawa
 Springer, Evelyn, Ottawa
 Stein, Rachel, Bellaire
 Twining, Paul, Ottawa
 Van Tries, Mary, Rantoul
 Wheeler, Lina Lou, Ottawa

Harmony and Other Courses

Ayrault, Ruth, Ottawa
 Blunt, Dorothy V., Cawker City
 Boyer, Margaret, Cawker City
 Brooks, Lorraine, Briggsdale, Colo.
 Campbell, Ruth, Ottawa
 Casey, Winifred, Pomona
 Diven, Ernest, Cherryvale
 Elliott, Lona, Ottawa
 Griffith, Lloyd, Barnard
 Harness, Alta, St. John
 Henderson, Era, Horton
 Hulburt, Helen, Pratt
 King, Gladys, Ottawa

Mattingly, Caroline, Ottawa
 Rickard, Marjorie, Ottawa
 Rogers, Bernice, Abilene
 Safford, Martha, Elkhart
 Schreiner, Edna, Ottawa
 Shaver, Thelma, Ft. Scott
 Sigler, Frank, Richmond
 Swenson, Alvena, Concordia
 Terhune, Marguerite, El Reno, Okla.
 Trump, Mabelle, Formosa
 Vaughan, Portia, McPherson
 Wise, Helen, Mound Valley

SUMMARY OF STUDENTS

COLLEGE

Seniors	37
Juniors	31
Sophomores	61
Freshmen	133
Special	14

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ACADEMY

Fourth Year	9
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CONSERVATORY OF MUSIC

Piano	112	
Voice	49	
Violin	34	
Harmony and other courses	23	218
Grand Total		527
Repeated Names		96
Net Total		431

DEGREES, DIPLOMAS, PRIZES AWARDED IN JUNE, 1921

DEGREES IN COURSE

Bachelor of Arts

Ralph Edwin Ayrault
Nelson Baldrige
Waldo Oliver Brodrick
Evalena Price Carter
Doris LaZiere Drake
Paul R. Goodman
Walter Perrine Halbert
Mabel Hall
Ernest Heiken
Mabel Virginia Hegberg

Mary Grace Hicks
Ruth Olive Hume Hicks
Metta Johnson
Celora Bella Keetch
Herbert Orvin LeGrande
Frank Osterhold
Samuel Bert Potter
Ruth Bailey Storen
Alta Leona Walters
Paul Wisdom Worthington

Bachelor of Science

Harold Wood Bailey
Ruth Scharl Bowerman
Claude Vincent Cochran
Gladys Marie Easley
Maza Evans
Kuranosuke Fujii
Anna Louise Gilmore
Verna Loretta Halbert
Martha Clarissa Hanes
Edward Newlon Jones
Agnes Elizabeth Lake

John Wallace Murphy
Raymond Clifton Perrussel
George Edwin Potter
Norman Irvin Reist
William H. Snaveley
Grace May Stewart
Martha Laura Stoltz
Irma Winona Thomas
Clara Ellen Williamson
Alice Edna Winkley
Roy W. Wynne

Bachelor of Music

Patti Marjorie Denton (Voice)

Paul R. Goodman (Piano)

Candidate Who Graduated With First Honors

William H. Snaveley

Candidates Who Graduated With Second Honors

Ruth Scharl Bowerman
Claude Vincent Cochran
Maza Evans
Mabel Hall
Mary Grace Hicks

Ruth Olive Hume Hicks
Edward Newlon Jones
Irma Winona Thomas
Alta Leona Walters
Alice Edna Winkley

DIPLOMAS IN THE ACADEMY

College Preparatory Course

Lowell Ernest Bailey
Ada Marie Borgman
Emma Faye Cushing
Frederick A. Demmin
Esther Loretta Haegele
Jewell Corinne Hale
Clarence Wm. Hawkinson
Alice Louise Hoadley
Veda Constance Jackson
Hazel Pearl Knapp

Irene Elizabeth North
Frances Eleanor Paul
Arthur Dwight Phelps
Adrian E. Roberts
J. Forest Riggs
Verda Grace Riller
Frederick R. Teague
Edith Lois Twining
Paul Ernest Twining
John Carpenter Young

Commercial Course

Chester C. Feasel

Prizes Awarded June, 1921

Debate Prize, First—Guy Wimmer
 Debate Prize, Second (divided)—Harold Bailey, Edward N. Jones
 Sophomore Essay Prize, First—Nora Clark
 Sophomore Essay Prize, Second—Lona Elliott
 Freshman Declamation Prize, First—Marguerite Hjort
 Freshman Declamation Prize, Second—Lois Phelps
 Oration Prize, First—Harry Bolle
 Oration Prize, Second—Edward Pennington
 Freshman Latin Prize, First—Lois Johnson
 Freshman Latin Prize, Second—Nora Belle McLean
 Hageman Prize, First—William Snively
 Hageman Prize, Second—Alice Winkley
 Academy English Prize—Faye Cushing

Scholarships Awarded for 1921-1922

Filson-Shoemaker Scholarship—Dorothea Sharp
 Academy Scholarship—Faye Cushing

Fellowship Awarded for 1922-1923

University of Kansas Fellowship for 1922-1923—Mrs. Mamie Barnes.

CLASS HONORS

1920-1921

SENIORS

First Honors

Ruth Bowerman
 Grace Hicks
 Edward Jones
 Alice Winkley

Second Honors

William Snively
 Clara Williamson
 Alta Walters

JUNIORS

Ruth Ayrault

Helen Banta
 Lurine Skidmore
 Helen Wise

SOPHOMORES

Oliver Barnes
 Morris Ritchie
 Dorothea Sharp

Mildred Pfeiffer
 Edna Schreiner

FRESHMEN

George Broady
 Marguerite Hjort
 Helen Shaner

Lois Johnson
 Frances Marshall
 Hilbert Moore
 Bernice Settles

THE ALUMNI ASSOCIATION

Officers for 1921-1922

President.....	Mrs. C. A. Neighbors, class of 1903, Ottawa
Vice President.....	Paul C. Rankin, class of 1904, Lawrence
Secretary.....	Mrs. Leonard Allen, class of 1916, Ottawa
Treasurer.....	Clarence Peacock, class of 1915, Ottawa

The regular meetings of the association are held on the Tuesday immediately preceding Commencement Day. The Alumni exercises include a business meeting and a luncheon and reception to the members of the graduating class. All alumni are urged to affiliate themselves with the association and attend its meetings whenever possible.

The University earnestly desires to be informed of changes in residence which its graduates may make.

A Board of Recommendations has been organized, of which the President of the University is chairman and the Professor of Education is secretary. This board endeavors by recommendations, correspondence, nomination and otherwise, to assist the students and graduates of the University in securing such positions of confidence and trust as their records and past accomplishments may entitle them to hold. Its services are at the disposal of the alumni and former students of the University. No fee will be charged except a nominal one to defray necessary expenses of correspondence. The work of the board is entirely co-operative and the help of every alumnus is asked to make the organization a success. Communications addressed to the "Board of Recommendations of Ottawa University" will receive immediate and careful attention.

Class Memorials

Class of 1892.....	Oil Portrait of Franklin Johnson, D. D., President of Ottawa University, 1890-92
Class of 1907.....	Bas Relief of Reverend John Tecumseh Jones, Founder of Ottawa University
Class of 1908.....	Gateway at Northwest Entrance to Campus Picture of Prof. M. L. Ward
Class of 1909.....	Filson-Shoemaker Memorial Scholarship of \$1,200
Class of 1910.....	A Refracting Telescope with a five-inch object-glass
Class of 1911.....	An Automatic Clock for ringing bells
Class of 1912.....	Gateway at West Entrance to Campus
Class of 1913.....	\$2,032.36 toward the Gymnasium
Class of 1914.....	\$1,600.00 toward the Gymnasium
Class of 1915.....	\$1,260 toward the Gymnasium
Class of 1916.....	Steel Flagpole with encircling Cement Driveway
Class of 1917.....	Scholarship of \$1,000.00
Class of 1918.....	Scholarship of \$1,120.00
Class of 1919.....	A fund of \$1,000.00 for Chimes
Class of 1920.....	A Grand Piano for the Chapel
Class of 1921.....	\$2,100.00 toward the Cinder Track

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